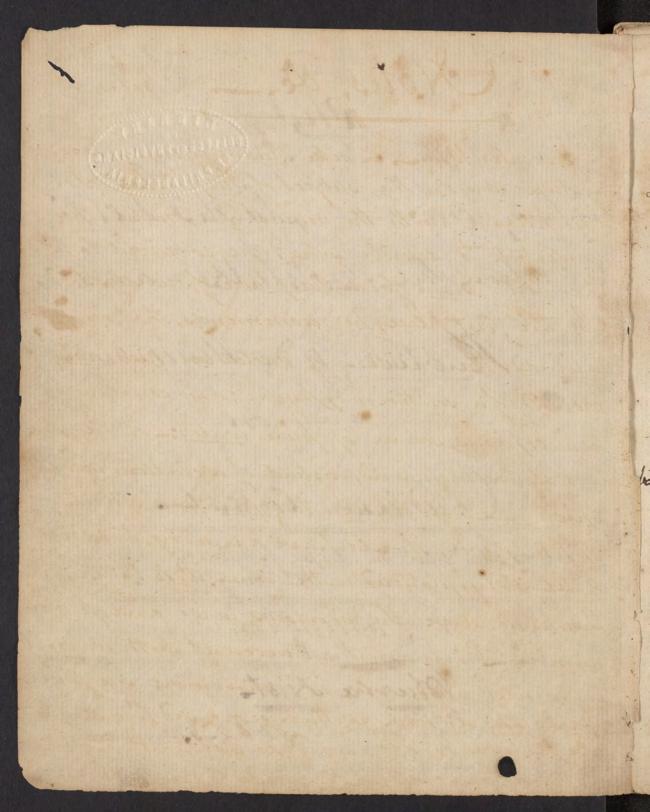


Presented to The Chapter County redical Vociety, By madarlington. In Semplum Medicina non licet intrare nisi Mulsus Comprehenditur._

Rush._ CE STORY

Mes hold drille of 7. Taken from Doctor Rush's Lectures Upon the Institutes, and Plactice of Medicine; Clinical Cases; -. Let no Man enter the Temple of Medicine who is not acquainted with the Bulse. Rush. By Madarlington, Student of Medicine. Volume First Anno Domini 10023.



Notes, &c. Sofrs = November 10th. Doctor Rush's introductory Lecture was on the subject of Maspitals: In compliance with the request of a Friend, he undertook to describe what he conceived to be The best Jolan for a Receptacle of Friendly's Sich. In the first place, he recommends, that, in our latitude, the building be erected on high, airy ground, fa southern explosure; and convenient to a copious source of pure water: It should stwo stories high, and, instead of a cluttered garren, which has been known to generate a species of Typhus fever, should have an airy, and neat atte story, plastered with Lime, it is better, he thinks, to have the windows large and few in number; being on that account both warmer in winter and cooler in summer: The fever wards should have earther or ground floors; and of them may not incommade each other.

The scite be properly adapted to the fun = : pose, the water should be conveyed into the upper stories; for the doctor lays great stress whom air and Water. The operating room should be at a distance from the sich wards; and in the form of an amphithe. atre. a room ought also to be set apart to contain the bodies of the dead, previously to interment; and so private that peculiarly diseand bodies might be examined without The knowledge of the Patients .- a building should be erected at some distance from the Hospital for the purpose of Wash-house I bake house - those prouges being injurious when carried on in the same house with The sick . The privies ought to be leterally privey - so that either sex could resort to them without being seen by the other - Women have been known to become much con stipated rather than be seen by a male on their way to as vault - The Joelor cloud his Lecture by another recommengation of air & Water - Worth a enlogy on Hospitals

November, 12th Lecture second was principally on the Education, and other preparatory again. ments necessary for a student of medicine; The Doctor Thinks the Latin & Greek languages by no means essentially necessary to the study of medicine; particularly in our country; - as all the works of repute are translated, and because we have to enter into active life at so early an age, that the most useful parts of science must be preferred to the ornamental. Reading, writing, arithmetic, & something of the mathematics are among the useful parts of preparatory education: - Eloquence, arguired in debating societies - and the frequent perusal of the poets, are recommended. A legible hand writing is particularly enforced; as serious mischief has been done by prescriptions being indistinctly written: for instance, aqua fortis has been used for agrifont. de. The study of the French & German tongues are highly service: :able - a knowledge of Grammar, and a con: rect diction, are indispensable to the successo of Practitioner; or he will be suspected for a Quack.

Novem. 15th In the forepart of his third Lecture, Doctor Bush observed that the ears were more faithful than the eyes in retaining knowled; of course, hearing Lectures is better than reading books on order that the whole of the Lectures may be intelligible, it is necessary every one; for one lecture, or even part of one, lost, may render subsequent allusions and obser: reations quite unighteligible ... le thedent should attend chiefly to the diseases of our own country; and spannine the sick himself for there is as much difference between seeing a patient, and reading a description of his disease, as between the original and a painting: and more especially should be prefer the actual observation of those dis: eases of our Country, which are treated of by foreign authors as they appeared in theirs, to the perusal of their works; as our diseases bear a very different character from those of foreign countries. - Levina the superiority of observation over closet study V we have the following circumstance; Thysteria

and Worms are sometimes complicated; yet no author makes mention of such a faction It is common for Empirics to rail against all Theory, to conceal their ignorance; yet, the Doctor says, there are 10 false facts, and contradictory experiments, to & false The: ory in medicine. The should be pune: tual in seeing our patient at the same how every day, and in Jurnishing the medicine soon after prescribing it; as it obviates disagreeable unearings, and the ile effects of disappointment; which to a sich person are worthy of consideration &. Rush knew a woman who laid awake all night in consequence of her Physician's neglect to see her in the evening . . We should a: : void Patients very early or late in the day for obvious reasons. We should not be above being an apothecary, or preparing our own medicines; Cullen began by learning the apothecary's businesses Be not carried away by attending to uncommon cases of dis: Loctor Hamilton was seen to prefer the

The examination of a case of common fever; while the rest of the class were busy in viewing a chied which was born with two heads: Tis reason for which was, that he never expected to see another child of the same descrip: tion; whereas, he expected to meet with cases of fever every day Be cautious in ascribing cures to such & such remedies; for the patient has often ometted taking Them: hever ascribe a cure to blieding, without ascertaing that it was done; either by a sight of the blood, or of the arm. Spacerbations of fever often occur during the night that require attention. hever leave off attending your patients before they are perfectly cured; - Seath has been occasioned by neglecting them too soon. Let no companies or engagements hinde your attendance on your patients; y you do not discover an interest in their recovery, they will soon think lightly of your Let all your conversation with them inspire considence; It

is of great importance in the cure. An in: stance is related of a Physician who demanded a fee for the great secret of the art, which he wasto teach his pupil; The fee being paid, he took his pupil into a private room, and very gravely unfolded it in the following words Conceit can hill - conceit can cure " Private practice chiefly affords cases in high-life. It is there, too, we have most apperience in Epidemies. But Johi: tals have their advantages; - a Mysician there is independent, de . .. Hospital patients die more prequently than private patients; as they are often received in the East stages of disease - are intemperate - exposed to impure our, & Hudents should attend the practice of both; They should study with Thy vicians who prepare their own medicines. They should also attend clinical feetures. The course before us, says It. O., is composed of 4 harts - viz. Physiology, Pathology, Thera: fenties, and practice of Physic. .. The Lettire was concluded by some account of the diseases of the Hospital Platients.

Novem. 16th Lecture 4th. Observe a due Meshect, & the rules of good-breeding, towards every part of the family in your visits to see a patiento. If a Lady conduct you up stairs to see the patient, always walk up before her; but let her enter the sich room first .- and in return = ing down stairs, walk behind her; for reasons which to every delicate mind must be obvious. always let the patient know of your arrival before you enter the room; this you may apprise him of by your walk, or by speaking, The consulting Physician should avoid visiting the patient alone; as questions may be asked, or he may make use of expressions, which will produce embarrafoment afterwards. Let the attending physician speak to the patient first; and make the first inquiries. So not feel the Julse immediately on entering the room of a sich person: - Tit down on a chair, or trunk, or some convenient place, and converse awhile first, with the patient, on some trick subject; but never introduce forign out: seets, nor ohear of them, unless introduced by the

patient. Then the patient becomes perfectly at his ease, introduce the subject of his com: : plaint; but first let him tell all he knowsres; - peeting it before you ask any questions; for the sich can generally give the best descrip: - tion of their situation, if not interrupted by interrogatories; thoughthey seldom give a correct account of the causes ... Then, tot enquire into the duration of the disease. 2nd In what man: ener and place he was attached .. 32 The cause of the disease . Mothers and Nurses are aft to ascribe the diseases of children to an imperfect cure of the small pap & meagles-but erroneously. If any difficulty in discovering the cause occur, or it is not very apparent, inquire into his previous habits of living for several days part; what change of dress or diet he has experienced - Spoiled Fish have been known to accasion sickness & vomiting and efflorence on the shin: a change of dishes has excited yellow Fever during its prevalence in this city . - We should inquire if the Patient had ever the same disease before, and in what

what hart of the World: also if his former habits were temperates this to be known from his Triends or acquaintance for the Sout at 40 has flew been the effect of Intemperance at 20. .. Rheumatism and Whithis of the al: teresate with each other Hounds, strains, and broken bones affect future diseases. The dujing up of Ulcers suddenly, may occasion disease. Judge not too hartily from dark colored stools - Heel will occasion black color: ed stools as certainly as malignant fever. always inquire if the patient have taken any, and what medicines . Tickness at stomach, tehing, supprepion of thine, & also an immoderate flow of it, have been caused by opium. Inquire the nature place of the Patient: For the diseases of Foreign. ers are often influenced by those of their own coun: try at the time when the Fever prevailed at Barbadoes, which was accompanied with, or encieded by, welled legs, those natives who came to this country, and merely had over common Intermettents, had obstinate swellings of those parts. - Reofile from warm climates bear bleeding less, when they settle in more northern,

Than the natives of those climates; and those from cold countries will bear greater bleedings when they go southward, than those among whom they go. - Complaints in the aliment. any canal are often brought on, in young Ladies, by the large use of acids, to privent Their growing too fato. It is necessary to observe, that people of different nations, for quently call the same disease, or symptoms, by different hames: for instance, what phy: - sicians call anxiety at the precordia, is called by the English, "a pain in the Homach" by the Scotch, "a hain in the Breast .- by the Trish, "a weight at the Heart:" A new England man would call it "mward Treakness" and a person from the southern thates, "mighty poorly" Jome diseases are hereditary; - as Gout, mania, consumption, serfula, &: and, on that account, require greater care in the treatment. In chronic diseases, inquire the age of the patient; and also that of his ancestors: - Old age is here: : ditary; and if his progenitors were long-lived, the

prognosis is Javorable: Family diseases may sometimes be cured by the same remedies; when others will fail - as when several of a family have epilep: sy; the remety which cured one, will often cure the rest, while the most powerful of a different nature will have no effect ... A French gentleman cured of Rheumatism by applying leeches to the Hemontoidal veins . -By diving with your patient, you may sometimes discover the cause of his disease to be improper dishes, tearn the temper of your patients His habitis - If he have been habituated to drink Wine or Minits, he will require more of those drinks during his illness than would be proper for another of different habits en female Complaints never loose sight of the state of the Utimes, as it respects pregnancy, Catamenia, He . - and in those of Children, never loose sight of teething and Worms hept

hept inquire into the actual seat of disease Disease always in proportionto the predispo: - sing cause . - Inquire the state of the alimentary canal, de state of sleep-Examine The countenance: The manner of his laying in bed; if the cubitus be natural, Examine the eyes-attend streetly to the pupils: - Color of the Hair: - Ned-hair Theo: : ple more subject to Phthisis - Black-- hair'd Jolhs of more irritable habits . - at: = tend to the respiration - state of the shinvoice - of the tongue: - White tongue a symptom of simple inflammatory Jever & dysentery - Brown tongue of bilions Jever: - dry tongue of Typhus-Black tongue of highly malignant fever-But be aware that liquorice, black our: = rant jelly, & some of the lines will make the torque black. attend like: wise to the color of the nails- 4 ellow nails are symptomatic of like in the blood - Healthy people's nails are red. -

Novem. 17th Lecture 5th. Houncestain to vely on the appearance of the Patient. I trust my pupils will be distinguished for their chief reliance on the pulse! Medium of healthy hulse 66 - at birth, 140-32 year, so to 100; this number of strokes in the minute continues till the 7th year .- at 12, the same as in adulto - In old slow and intermittinga perfectly regular pulse in an oldman, is a organ of disease - The pulse is influ: eneed by the sex-quicker in Jemales, as well as more frequents seldom & slow among savages- quicher in tage cities-In short people - Climate & season in: fluence the pulse - heat accelerates it slow in cold climates. Leldom above 40 strokes in a minute, in a greenlander. It is slowest in the morning-quickert at hoonand generally slower in the evening - slowers in sleep that waking on our back than on our side quicker still when sittingup-The position of the arm affects the poor

When the arm is uncovered, the pulse gives no correct idea of the state of arterial action. hever feel the pulse in the arm that is laid on. Eating, drinking, and the stimulating passions quicken the pulse - Conversation quick : ens it- Exercise always does .- le gentleman who had a preternaturally quick hulse, had an attach of fever, after which it became natural. - morbid state of the Juste - It in fuguency & quickness - Bulse may be quick without frequency- fre: Equency caused by irritability of the blood vefsels - slow pulse caused by apo: = player by the speepine timulus of some poisons. depressed pulse, as seldom as 30 or 40 strokes the minute, in Murisy It differs from the low or weak Julse in appearing in the early part of acute diseases; or in a paropysm of such dis: cases as are periodical . It occurs in in: flammations of the stomach & bowelow. Synochus hulse - 32 Synocha Julie

4th small, tense Julse, like catgut, called sulky, or tocked pulse - 5th. hobbling pulse; tinse, full, and unequalthe quick, frequent, small, contracted pulse; called synochula; occurs in cho: : nie inflammation - 7th. typhus pulse; in the last stage of fever - 8th. typhoid; occurs in the slow state of fever-9th. Tynochoid pulse - 10th. Hectie Julse, quich, frequent, & often full-11th. The natural pulse occurs sometimes in The most dangerous state of malig: nanto Jever Lastly thread-like Julse, occurs chiefly in the act of dying . It Ramsay oberved that the last pulsation of the Heart was much Juller than the preceding ones Technotis Julie, is known by 2 quick strokes, and 2 slow ones believe! Invidenous pulses on palsy, the Julse is quicker on the sound, Than on the diseased side on Weak, low fulses without fever, occurs in Mypochondriasis, after profuse Hemorrhages a anewypmatic July occurs in Stomach and Bowel com-

Hever feel the pulse immediately on entering the room; but it should be felt before the Patient describes the disease, as speaking accelerates the puelse .- free last Lecture; when I have mightated it it Feel the pulse with your fore finger They has more semilility than the thumb, atten Jugar; however, you may wholly two or three fingers, sometimes, with advantage - Jeel the Julie in the Batient's right hand, with your left hand: and vice versa - Feel it in both arms when depletion is a doubtful remedy .-Let the arm be perfectly free from prefune. Rech your finger on the fulse for 20 shohes, The Chinese feel it for 49 strokes, hence their accurace: - Where difficulty occurs in deciding, keep silence - shut your eyes, & Feel the hulse to know when to give Opium, vomits, purges, chaly beates; - to use the Bath, &c. - Indications from the Jouce, not frequency of the pulse. The pulse has been regular, and even hard, in inflammatory diseases-just before death. If I were to build a Temple to Medicine, There Thould be inscribed over the door Let ho man enter who is not acquainted with the pulse"

Novem. 10th. Lecture other the hatural state of The pulse during the first year, in children is 100 strokes in a minute. The Julse is gene: rally full and tense in proportion to its unfrequency - Running increases the pulse to 150; but, if followed up, will prostrate it; or sufficate it, by compression. - The deprets. ed pulse which occurs in pleurisies, is most frequent in those of autumno The Typhoid hulse is a medium between synochoid & Typhus. The Hectic Julse occurs in Mithisis, Hectie gout, and fevers from illconditioned ulcers. - Even en de: : bility, without disease, people require medical aid. The aneury smater pulse gives a very jarring sensation. - There has been an absence of Julse for hours, and even days, without causing death. here apply blisters in the way of Juliup The fulle; if they should be so applied, you may obtain a correct Idea of the state of vascular action from the Tem = poral artery. de. de. de. de. de.

Novem. 19th Lecture The Physiology is the doc: trine of the animal functions in a healthy state. - animal life consists in motion, sensation, & thought - Life may exit without thought or sensation; The lowest. state of Life is in asphysica - Every part of the body, specht the hair and nails, is en: down with excitability, or irritability It is of no consequence to us whether excitability be a quality or a substance; The futamer supposes the latter; & thatitis opygene. It appears to be a unit. Life is the effect of stimule applied to the excitability In the words of Dr. Brown it is a "forced state"; but the idea is originally St. Cullen's, though he afterwards renounced it. The human body is not an automaton; it's actions are all caused by exter: : nal agents. - all the Menomena of the human body; or rather, animal economy, are the of: feets of stimuli whom the excitability. In: : pressions whom the body excite the mind and produce Thoughter Itimuli are divide

into external and internal on the external stimulus, Light .- 2nd Sound .- 3rd Odors .- 4th. air .- 5th Heat; an uniform and active stimulus. bt. Exercise. 7th The pleasures of the Senses. The internal stimuli are Food; and its various modifications after mastication; as the chyle - the blood - secreted fluids, de .- The mind is always passive in sound sleep, in health . Treams are to supply the place of some deficient stimulus - Life is most perfect at mid-day It is not best to work hard in the morning . Second part, on animal Life ... Disease depends, in hart, whon a dis: : proportion between the Excitability and the Es: : citement- for stimuli ? The absence of one Stimules is supplied by the increased action of the others. A diminution of animal Life takes place during sleep- artificial sleep from opium, & other diffusible stimuli, is the consequence of the indirect debility which they induce. More air phlagisticated in sleep than waking - Ly: : denham excited seventing in Blaque, projurely, by covering the patient with bed clothes & causing him to breathe the same air for a while a aliment in the stomach acts most

powerfully during sleep- as well as wrine - the Jaces act during sleep so as to occasion dreams; particularly in the morning, when sleep is light. Depressing passions cause night-mare. Do not complain, Gentleman, when you are be: -strode by this midnight hag; she kindly comes to prevent sudden death, by waking you ! The Excitability of Children is so great, that far less degrees of the stimulus of theat will keep Them as warm as adults. Irritability in Children predominates over sensibility- so that they bear surgical operations wonderfully. Trying and laughter both contribute to the health of Children; It is as possible for them to ery and be fat- as to taugh and be fat at the middle stage of Life, man is in his most perfect physical state. Old age most subjet to Cancers, &c. because of the acrimony of the fluids in that stage of Life; - the wounds and sores of old. people are most difficult to heal, from the same cause . - An aged Lady once asked a Shasician what was good for an old woman: He answered by saying- What is an old Woman good for? But they do not survive their usefulness as often as men in This we see every day,

Novem. 20th. Lective Oth .- Life is supported by stimuli. Irritability prevails over sensibility in da age - Life is supported in Ideots by the stimulus of the veneral appetite; and the numerous motions and gesticulations, &. which they perform. Life is sustained in asphysia, by the eportability accumulating during the sus: persion of the vital functions; and there becoming much more early excitable. Dr. Rush thinks, with St. Hunter, that if animation could be instantly surpended by means of cold, and the body kept in a proper temperature, it might be preserved, and excited into life again at any future period .- Dr. R. Knew a gentleman, who once died, to all appear. ance; but was sensible, and understood the discourse of those around him who were figging the time for his interment. The honor of being buried alive had the effect of producing excitement, or Life. all animals require more or leso air -

Jood more or tels stimulant: They all figsels more or less locamotive power. - Life & growth is supported in both animals & vegetables by stimuli. Teeds would never germinate while hept from the combined stimuli of heat & moisture. - Subduction of Stermuli will destroy Life: - Except of stimuli will destry it; in this way malignant fever acts . Dr. Rush then went on to compare the differ: ant states of Life to those of a biolin .- Death from da age is a gradual palsy- It begins at the eyes - Then the ears become paralyzedthen the limbs - back, Ic. The mind would never act if it were not eputed by stime · li upon the senses - no innate ideas but an innate capacity for the socitation of ideas by the application of stimuli to the senses. - No little God in the brain to guide I conduct our actions, &. - The mind is first excited by stimule on the senses, which give rise to simple ideas. These ideas are combis becomes capable of volition, or willing the action of the body

Novem. 22nd. Lecture 9th. Animal Heatis always the same in all tempera: tures; viz. 9 b. - At. Stevenson says it is ow = ing to fermentation in the blood. This is not the fact . It. Leybert has clearly dis: : proved it in his margural dispertation. Dr. Bush says there is no putrefaction in the blood; but there may be in the 4. -cretions another hypothesis is, that it is owing to the friction of the blood against the sides of the vefsels; - This is also untimes another supposition refers it to the collisi: ion of the particles of the blood against each other: likewise false .- Chemistry has discovered the true cause of animal heat - Dr. Black led us to this knowledge, The same prouse goes on in our bodies during Respiration, as in a smith's fire during the blowing of the bellows. viz. a decomposition of opygene. The basis of this gas is combined with the blood, giving it its scarlet hue; while the calone

is set loose . The fire-place four boties; is the lungo-they phlogisticate a gallon of air in a minute. There have been some objections to this theory; but & Rush does not think them of much weighter The va: rious of the body, as the lithic, reliacie, be he thinks are formed by the oxygene obtained from the air. de. - It. A. thinks the reason why animals become no way er in high temperatures is, that the heat become latent by some means. - people have been burnt, or their flesh decom: posed, in bed without the least effect upon the clothes, or even the stockings on Their legs .- These accidents have chiefly happined to Drumhards, & females . - all animals die when deprived of air - The frog in the rock .- polypi form the connecting link between animals and Vegetables .. Heat nearly the same in all parts of the body. Inequality of heat is as much a disease as an inequality of sectionent. Heat one de

degree les in sleep than waking. The the of heat, is to preserve fluidity of the fluids; promote digestion, aid the senses, & .- Next in order comes respiration; motions are divided into voluntary, involuntary, and mixt. The only mixt motion is respiration . The origin of involuntary motion is the most abotiuse question which ever engaged. The attention of Shysiologists .- Dr. Berkley supposes the first motion of the heart, at bith, to be volcintary .- Dr. Rush, is forced to riject this highotheris. The hearts of children who have had no brain, have yet pulsated; how, without brain there can be no hund, - and without mind- no volition &. R. knows of no other cause of the involun: tary motion of the heart & arteries, than that those parts possess a greater share of excitability than the voluntary muscles, therefore more early acted on their con: terito- and become thereby habituated to action, independent of the will ? Reshiration to be treated of tomorrow.

Novem. 23rd. Lecture 10th Respiration, is divided into two parts-viz. Inspiration, and Explanation ... It. Cullen gives the best account of respiration in his Mysiology- The Lungs have but little Sensibility & Stimulability. have most in the bronchie. This want of Lensibility & is of great advantage to them. Causes of Respiration, an uneary sensation at the breast the stimulus of Sephlogisticated air . He the are numerous; conveys have air to the blood opens a source of heat necessary to Life Carries of vapor which migh be injurious. Respiration is performed with most force, though not most frequency during Heep- afists greatly in parturation, by cau: sing the diaphragm to compress the Utimes. It enables children to perform the delight: ful operation of sucking. When a child is in petticoats, a physician should not ash the sex- his own observation should teach him to discover for the breasts of Jemales more most in Respiration; where are most used. If cough suddenly ceases

in lonsumption; and diarrhad does not come on; death soon ensues - Catarrh is always preceded by debility, of the indirect hinds fruging is a proof of the crisis of catarrh. - Laughter, when moderate, conduces to health - Tristram Shandy's Dedication. Hiccorp occurs after exceptive laughter; and in the last stage of some fevers .-Physiology is to anatomy, what thi: : losophy is to natural history .- The Organs of voice & speech act whon si: milar principles as a Wind Instrument. It. Ruch illustrated this by a copious com: : parison. - inflammation in the frontal simples renders the voice dull . - The dif: ferent motions of the Glottis are said to be 9632 .- The voice is divided into frave and acute, according to the dilatation, or contraction of the glottis and weak a or strong, aclording to the force with which Respiration is purformed. The voice is modulated by the passions .- Those

Those who are commonly said to speak through the hose, do not, in fact, speak enough through it he carrity of the hose is diminished. Baraphonia is a low, whispering voice; aphonia a total absence of it .- Thereh is wholly imitative .. It. Of how I children in this city who did not acquire speech until the 8th. year; The knowledge of this fact will enable us to encourage the parents of Children who are backward . The Laryng & glottes are first used towards sheech, in infants, as in nowing; and crying Dad - dad le .-The lips are then used as in saying ma-pa- mama-papa, &. - Mysicians should go into their hursines not only as parents, but as Philosophers: They should observe, nicely, the evolutions of the mind in children. The car & lye, but chiefly the former, are the avenues by which Children acquire speech. They should be made to repeat hard

words a dozen, or more times, or they will forget them. Language is divided into guttural, lingual, & labial - Ja: vages and lazy people speak gutherally, That plethora of vowels in the Halian tanguage appears to have been in: troduced by indolence & pure lazings. Philadelphiasm, or the pronouncing of veal - weal; white - vite; &c .- may be au: red by heeping the tongue against the teeth while speaking those words; & prefing the upper teeth & lower lip together. Ventrilogeism is a decep: tion: Those cheats speak during in: spiration. - It Johnson says there are 40,000 words in the English language, and many have been added since his time, man hopepes many faculties in a much greater defree than trutes; but it is chiefly by the power of rational speaking that he is ennobled above the other animals of Creation.

Novem. 24th. Lecture With .- Circulation of The blood: The action of the auricles of the Heart is synchronous; as likewise is that of the ventricles .- The Heart epeites The brain, & is, in turn, excited by it. The articles are strong in proportion as they recede from the Heart; hence ancerisms form most frequently in the large ar: tires. Neins the same. The Heart is the first mover of the blood it is ep: -cited by the stimulus_ vis insite: By an influx from the Brain it derives a large portion of Fritability. The doctions of oxygenated blood does not ephlain the action of the right Ventricle & auricle. The quantity of blood in a middle sized man is computed at 25 ths. This does a: com the objections to copious benefection The arteries are the primum rivens, & Ultimum moriens of an animal . Uses of circulation to support the brain - con: : very heat - fluids & give tension toy! hervous fystern

Novem. 25th. Lecture 12th. - There will some: thing remain unknown concerning the human body- to stimulate inquiry physi: cians will, doubtless, one day, arrive at the knowledge of the functions of the train; a agree with my old master, Souton Cullen, who used to conclude his tee. ture on an abstruce subject, with dies doceat. Valli says the nerves terminate in the brain. - It. R. includes in the term herrous system - The brain & newes, museles, tendons, and mind. Ganglia are little trains they intercept the power of the will over in: : voluntary muscles .- I shall neither adopt, nor reject the prevailing doctrines con: cerning the Vital principle; which gir: tanner supposes to be orggene; some others Electricity, de I suppose sursation and motion communicated by a matter-sui generis; from the brain. the herves & mus: : cles popejo a vis inuta. I will here advance. merely as conjecture, an idea that the

nervous fluid is separated in all parts of the body, but especially in the brain, by friction of the blood against the refaels. The repels of the brain are remarkably flepuous. The tio enseta is generally in the inverse rates of sensibility on producing the mo: tion of animal bodies, the following is the order-first emprepion, then sensation enries; the consequence of which is percep tion in the mind, exertion of volution, and finally motion. "Tensation is simple I reflex- the former is confined to the herves: the latter extends to the brain; as when perception or volition is excited. Impressione do not always produce sensation & motion; hever lose sight of This fact - a continued impression on the mind excites attention . - But one sen: sation can be excited in the mind at one. This fact is of consequence to remember. Tound whipping will counteract the bad effects of an over-dose of opium. In: pressions may be so strong as to destroy

Tensation: as in some cases of malignant fever, the patient will feel no pain-Habit has a great effect on sensibility. on some instances a continuation of imprepions will specte more applie site sensation; as in that infamous punishment formerly used by the In: quisition, of dropping water from a high ceiling on the bare scalp. Habit also renders the inhabitants of marshy countries insensible to missmata - & even renders the stimulus of them ne: cefrary to health. an unconscious pro: ed, is performed by afacciation. Novem. 26th. Leeture 13th. - Effects of Habit upon actions, or Britability. - motions in Infants acquired by Wabit; as they are very erregular at first .- active Sympathy increases in proportion to the diminution of papeive sympathy. A young phy: sician will feel mon, and do less for his patient; whereas and old Mhysician will feel less, and do more for him.

Walking is at first a voluntary motion; but it will be performed afterwards, in defendent of the Will . Repetition in creases strength; as it is said a man that lifts a calf every day, will be able to left it when a cow! - Repetition re: gulates nearly all our actions. I know: : leage of the Laws of Lympathy; or aprocia: : hon, as Darwin calls it; is a desideratum in medical Leiener The effects, or the: nomena of Lympathy, demonstrate the Unity of the newous system. Tympathy is divided into Contiguous; as the effects of shrill noises, mich as whetting a sere, whom y system: - Selurive, as the critation at the glans penis from stone in the bladder in Continuous, as the intimation of the rectum to stool, after eating; de. a case of delusive & continuous sympathy united, is when the nose is irritated by worms in the stomach; The case of stone in the bladder is also are of this kind. mutual affections of Uterus & rections afford a case of Contiguous sympathy. Evolution of Streng th; - first in the Back;

next in the neck; then the arms, legs, muscles of locomotion, &c. Children can always run before they can walk: a dunken man can run better than walk ... Tick people acquire strength in the same order. The Tenses. Whole ourface of the body capable of sensation. The Brain is like a great City; The five senses are the avenues, or roads leading to it. Touch is awidely extended sense . - Wounds where The shin is thick, as the roles of the feet, or the palms of the hands, afterer pro: duce tetanus, Than more tender parts. The colours of nations, & people, lie in the rete mucoum. Hair- Bowder dries the hair . Tensation much go: verned by the state of the arteries: always in proportion to the tension of the arteries of the part; and of their humber: - as in the lips, breasts of Jemales, & Semitals of both Lepes . The Singers populs most capacity for dis:

covering the properties of bodies; lips the negt; but the brain must be wholly free from compression; or even much impression to discern nicely - The sense of touch is most acute when all the other senses are free from imprepion. Hence the propriety of silence & darkness in feeling the Bulse . If we were devoid of the Lense of touch, we should not be able to distinguish the rong cheek of a gretty Gire, from a coal of fire!!! Horses start at tumps, Hones, de from the want of this sense. Helvetius conceives this sense to be the best & most general mark of distinction be: tween the human species & other animals Novem. 27th. Lecture tythe Taste is reated in the tonque. The sense of Faste is situ: x rated exclusively in the tip and sides of The tongue: The third tranch of the 3th pair of herves are the particular organs of taste. on a dry tongue, no taste can

be excited. .. Dr. Reid Supposes that The sense of tarte is effected by the solution of the body applied, dipolved in The liquor of the tongue acting whom the pervous papilla of the tongue: St. Bush thinks this theory approaches buth. Taste may be transferred to another part of the mouth, when the tongue is destroyed as the sensation of the Glanspenis may be transferred to the pubes, when that hart is amper: : tated .- Taste is not an independent sense- it is intimately connected with melling - The eyes aid Tarte - Tarte directs us to the use of wholesome aliment. The Objects of Taste limited to seven the mimitive colours The varieties of this sense are occasion: Ed by a mixture of the primitive objects Imilling . The only difference be tween animals of acute mell, & the contrary kind, his in the rize of the Opa Thongiosa. Inspiration epintiel To the sense of smell . It is rendered more acute by shutting the mouth.

Three of the senses, seeing, hearing, and Jeeling, are mechanical; - The other two, Jaste & Smell, are chemical. Incl: - ling assists taste . - Odors are sptremely dif. : firible; then why not Infection? Elephants & Greishounds popels the June of Smelling in greatest perfection The man who could follow his Wifestracky by the seent of her feet!!! The Gramins posses this sense againtely. They can: not endure the odor of the perspiration of an European, who has been long con fined to animal food .- They live exclusively on vegetables. - Odors seven Original, like colors & combined to pro: : I we the barreties .- Imell transferra: ble to the Homach, when lost in the hore - like tarte to the other parts of y? mouthe Novem. 29th. Lecture 15th. - Imell, continuede-Some odors which are disagreeable when con: centrated, become grateful when diffused; as musk, de. - Some bodies of powerful odor, have but little tarte. The gratefulness of odors, as the Rose, is increased by hierioristy smelling some

disagreeable substance, as apafetida, de. Odos lose their effect on the offactory nervesty repetition; but probably afrit in sus: taining animal Life, notwith standing. Seeing-differs from task & smell, by be: ing committed to two organs; as well as by being produced Mechanically. all ani: : mals have, at least, two eyes; some have four, others sig, & some others have eight. They are protected by the orbits, eyelids, eyebrows, &. The eyelids have, or are com: frosed of, six coats, which are devoid of fat. The tyes moves in all directions with inconceivable velocity. The Conjune tive is a continuation of the luticle The Scherotica, or white of the eye, is a continuation of the Isia mater - The Cornece is transparent in every eye. ho newes have been yet discovered in it. . The Choro a atheres to the Sclerotica by The ciliary circle - The Mea is covered by a black pigment, which absorbs The straggling, or superfluous rays of Light. Jupil - The Retina is a continuation

of the Optic herve. The bitreous humos is intuated in the posterior part of the eye The Chrystalline Lens is contained in a strong, clartie capsule, anterior to it. - The agreeous humor, anterior to all. Light, - consists of Seven different species of rays- or primitive colors; which may be recollected at any time, by remem: being the initials of those words; Thus V.J. B. G. 4. O. R. - standing for Violet, Indigo, Blue, Green, Yellow, Drange, and Red ... a body is White when it reflects all the rays. Black absorbs them all. - Transparent bodies reflect none - they all pass through Refraction, is when the rays are broken by passing from one medium to another of different density. The Rays fall in directions on the cornea_ are re: fracted by the humors; & the Retine is the point where the ray meet, & form vision. The each shape of the humors is neupary to complete visit con on children, & some adults, Theyes

eyes are so convey that the rays of light meet too soon; which renders them short-sighted: and in old people they become too flat to see objects which are very night a complete eye can enable a herson to read a clear, middlesized print, about one foot distant. The eyes accommodate Themselves to the distance of objects. The pupil sphands in the dark, & vice versa. The quantity of Light necessary to vision is relative; as a person may be able to read, after a while, where he could not as: tinguish the largest objects at first. Blue, or Grey eyes are the natives of northern climates: Black eyes, of southern: Thus their color is a: dapted to the quantity of light they are destined to receiver. The figures of objects are inverted in the eye; but the mind receives a just idea of their position by attending to the

first impression. Lee potterfield on the eye. Two impressions of equal force cause but one sensation. The right eyes is this without erestion? - in left handed people, the right by if that in foly south the cost on besion. - Why Light & Darkness affect the eyes? Light is a stimulus which causes the Jupil to contract when it is abstract ed, the pupil dilates. Looking at a piece of black cloth an hour or two before you go to see the favorite of your heart will render the eyes Jinely languishing; & herhaps enable Them to do specution. Green is the middle color & most universal. avoid reading while on your back. also avoid reading perpendicularly downer. Receive the light from behind, or sideways. hever read with spechive, or searty light ... hor al: : ways the same siz'd print. avoid pressing the eyes in washing the Jace . - Use theetacles as soon as vision begins to fail, Jeeing is The most noble sense. The Eye is the Misson of the Soul, & the Masterhieu of nature!!

Novem. 30th. Lecture 16th. Mearing - Tound consists of certain ribrations in the air which excite sensation in the mind. Sound is applied to those vibrations occarroned by speech, &. - Noise to those occasioned by the concussion of bodies; or the apploison of Gun: - powder, Dr. - The Earth, air, & Water are the medice of sounds .- Bodies are sonorous in proportion as they are tense - grave sounds descending become acute; - Facute sounds whon elevation become grave. The more vibrations in a given space, The more acute the sound; & vice versa. ... a sound, to be andible, must consist of at least 30 vibrations in a second. a dinstinction is made between acutenes & Intensity of tone. Dr. Franklin's Harmonica was constructed with glass tum. blers; which emit sounds by rubbing the eges - Length and a small degre of tension of sonorous cords, emit grave sounds best:while short, tense cords emit acute sounds, The presence of air is necessary to the pro-duction of sound; a bell will not produce

sound when struck in a vacuum .- The angle of the reflection of sound is equal to its angle of incidence. The Car is divi: ded into three parts; - meatus auditorius on ternus, Lympanum, & Labyrinth .- The projection of the ear aids sound .- The membrana Tympana is nearly horizontal with the earth; because sounds chiefly come from below. Hearing continues, sometimes, after the rupture of the memb. Tympana. The portio mollis of the seventh pair of herves goes to the cochlea of the ear; which feechleaf is to that organ what the retina is to the eye. Sound is The raw material of which speech is manufactored in the Cochlea. - Hearing is rendered dull in children by a quantity of mucus which is wisely provided to defend their tender organs .- We learn the direction & nature of sounds by Experience only Hear: ing is dependent on, or is aired by, the hose, The eyes, & the mouth. It is more acrite when respiration is surpended. - Hearing is trans: forable to every part of the body; - Kaare Bourhave could distinguish sounds by his beet, after he had lost the served hearing.

A young Lady in Germany discovered the tune her sister was playing on the Harp: sichord, by resting her teeth onet, after the had become totally deaf - a certain Lady could discern the noise a fin made in running through paper, when she could not hear the firing of artillery .-The ear is the sole judge & regulator of sound; hence deaf people are apt to sheak tower for higher than usual. The mind receives but one sensation from 2 impressions on the ear. - War: mony & milody-. The latter consists of agreeable successions of notes referrable to the gament: Harmony consists of agreeable combinations of them. Sawin . The song of viros is intirely melodious. The taste for melody is universal; as every one admires the singing of birds .- Hearing is nest to vision in importance. The senses are the avenues of thought - Without them ive should be below the brute creation - like logs and stones . I deas are the off spring of. previous sensation.

December 1st. Lecture 17th .- Whilosopher have had various notions concerning the operations & nature of the mind. The Senses are often deceived by not sub jecting bodies to all, or several of the senses: The senses are tiable to fallacy from disease. - Always bear in mind The dependence of the senses on each other .- Ghosts & Spirits have existed merely because certain Johnnomena were not subjected to the Inspection of more than one, or at most, two senses no person ever felt a short; yet if the were visible. They must be tampible. The noise of Window Mutters in a windy hight, has often haped for shorts; the reason was, they were not subjected to the other senses. Never believe in apparetions, gentlemen, until you feel them! Tome have laid great These on the efficacy of Observation in acquiring knowledge; - others have depended solely on reason in order to

arrive at correct information; - While a third set ony down every thing but Epheriment: But, Observation, Reason, and Experiment combined are necessary to form a correct judgment. . The Mind acto, and is acted on, as mechanically as the Tenses. - Without a knowledge of the operations of the mind, let no man enter the all of a maniae; or the room of a person in a delicium as physician; for if it can be awarded, as a hurse of me class of Whilorophers has supposed the mind to be im: : material; and that it acts totally independent of the body . - a 2nd. That it is an equintely fine and subtleized something nather but intimately connected with the organization of the body . - While a 3rd afrest that There is no such independent of The body; but that it is the effect of external agents whom the brains

Through the medium of the senses. Atheirt, Deisto, Theists de .- Driestley is at the head of a seet who Juppose the Soul undergoes a temporary death; but will be raised again at the last day with an incorruptible body. These doctunes, let which will be right, so not affect the laws of Himuli & Epertability. There is no neepary connection between the mind & body. The Deity can effect his purposes with out our being able to comprehend The laws by which they are effected. The Bible is not a Metaphysical work; it is code of rules & regulations for mortals to act by . - all this does not affect the Christian Religion .- The body first acts upon the mind; & the mind reacts whon the body .-By the mind I mean all its fa: : culties .- The faculties of the mind, are, Memory, Understanding, Imagination Will, passions, Moral Faculty, Lense

Tense of Seity, & Conscience . St. Rush supposes a motion takes place in the Brain at every action of that Viseus, similar to that of the mouth and lips in speaking; or rather whom the same principle. A definite, fixed operation of the brain for every Idea, or thought. a small motion takes place in the nerves whom the slightest sensation. II were permit: ted to coin words, I would have a vis insita, a vis hervea, a vis sensorie, and a vis mentalis; es prepire of the powers of different parts. - Then motions, or powers are excited by the various external and internal Himulia Unimals whom hearts are nearest the brain, have most mind. - The brains of Infants too softed tender to convey motion; Those of old heaple too hard - Size, and density of train govern its powers .-

Decem. 2nd. Lecture 10th .- Fallacy of relying on a hart of the senses - or on the senses apart from reason or of relying on reasons without consulting the senses - Memory-is one of the hoblest faculties of the mind . The hower of recalling djects to the mind .- Reminiscence - is a recollection of objects part, by a fresh appli-: cation - it spirts in some butes, & in con under one year of age - omprovement memory depends on civilization - Tavages popels it in a low degree: - some nation cannot count more than 3 .- There are for names, I for humbers, & & for words, & each possessing a separate portion of brain . - Thos Fuller fa hegrof had a remar - ably strong memory for humbers ... Me mony of Ideas the noblest of the whole. It distinguishes philosophers and men of Knowledge, from those of mere Learns, Imagination - differs from memory in embracing future as well as part

events. Themory may be compared to History: Imagination to a picture, or camera obscura. Memory like a ship with ours- magina: tion like one under sail . magination is the Columbus of the mind. - an effectial ingredient in genius. It differs from Fancy all the faculties form what is called the Human Understanding . The other faccilties are the materials, which the anderstanding, like a skilful work: man, build up into a stately fabric. The Will is the faculty by which we reject or choose objects - has 2 reats_ Volum = tas facit peccatum. Joapions are to the mind what the senses are to the body- propensities- desire-emotions-x affections. The moral Faculty is in The Will - Conscience in the Understanding -Tense of Deity distinguishes man from brutes. Moral Faculty is the governor of our actions - Conscience the Judge of them - Theculative Luth & Error are the objects of the Tational Faculty ?-Tood and Evil are the dijects of the

moral Faculty - Queries - may there not be quiescent faculties - I may not those. faculties be speited at some future day, to perfect our Happines? The mind has been compared to a well organ: ized government - hemory & sma: gination are the House of Representa: itives - Understanding is the Lenate. Will is the Judiciary Consei: some the high court of Errors & appeals. Decem. 3rd. Lecture 19th. . Operations of the Jaculties of the mind: - perception, afso. : ciation, Judgment, and Reason. Nolition is likewise a faculty, but modified .- All sensation when conveyed to the brain, excites (screeption. - a change is produced in the mind by perception, called Idea-Ideas are the Images of real objects . It. Berkely supposed there was nothing in nature but spirit; that what appears ed matter to us, was merely ideal, Buffon denied that there was any This Miritual; but that all was matter;

even mind he thought was wholly ma: terial - Hume afected there was nei = Ther spirit non matter in spertence: That all was shanten! The Human mind may be considered as composed of 2 harts - Ideas - & Notions, or Thoughts. Idea is a quality- as much as sound. The revival of Ideas is performed by association. Thoughts appear to be the effect of motion in the brainexcited by external and internal Th: muli; Thought, therefore, is a quality. I deas are simple perceptions - Thoughts are The combinations of those ma: terials. afociation is an operation of all the faculties of the mind, It is the same thing in the brain as Sympathy is in the train. With: out this operation, we should be un: cable to judge of any subject. It him we think of a great General Dan Usurper, We associate with those ideas, the

the name of Buonaparte. Inost ofour pleasures and pains are owing to this power of association. Genius consists in part, in disolving wrong associ: ations, and effecting true ones - afso. : ciation is assisted by pleasure & pain. the feel pleasure & pain many a time, by association, without being sensible of the cause - as is often, Vindeed, generally, the ease with Hypochondriaes. - Lounds, Letters, Words, de produce afrocation she Word Blood always produced faint: ing in a gentleman of Liverpool. Heg. Hepander, by this power, was long known by the hame of sout no-point. - association of ties of con: sanguinity, de often of great course = :quence for physicians to be ac: quainted with . Judgment is form ice by a comparison of Ideas; Then by enabling a just inference. Reason consists in reluting singly

propositions formed by Judgment, and de: ducing Futh .- It would be more proper to call reason - Induction . - A person may popels Judgment without reasoning Bowers .- Genius travels on the wings of the wind: Reason travels on foot .-Genius & Common Lense different. - Com: mon tense consists of opinions and feelings in unison with the ma: jointy - Reason belongs exclusively to mankind. - Taste is a faculty of the mind .- passions affect the mind both morally & immorally; - That is, whichever way the mind inclines, They cause it to act with more vi: gor. Reflection, contemplation, & attention. The Miser is attentive to His money - a man of moderate talents may reflect - But the man of genuine abilities, alone, can contemplate. Wit is composed of, or consito in, a et of ideas which are peculiarly ap.

appointe - or the contrary . Laughter is chiefly excited by incongruity, othera tions of the Will ... But one action can be performed with consciousness at once. - a woman can walk, talk, I hait at the same time; yet but one of those actions is performed with con: = seconones at once - the others are per = -formed by afrociation. - all the acts of the Will are the effects of motives applied to the mind .- There would be no more will without motive, than Life without Stimuli. The agency and necessity alike true - the new-born Infant, agerm of sleeping mind. I Lense of Deity appears in children at about The 5th. year .- Imagination seldom acts in Children before 12 or 13 years. The Memory is the faculty which Jails first .- Imagination & Understanding next. - The moral Lense, & sense of Deity generally increases with age. The Fa: :culties oftener decay, or rust from we of are, than they are worn out.

Decem. 4th. Lecture 20th ... Jecond thoughts are best in the rational faculties-first thoughts are best in the Moral Jaculties. Intuition is but a rapid operation of the rational faculties .- I deas are the effects of certain motions sected in the brain- therefore a quality. And cannot be recalled but by The same motion again excited, either by the object, or by Memory - Association appears to be sevoluntary - a thread on the finger, often brings back the idea associated with tying it .- Reason takes certain proprontions, - combines, repa: rates, Compares them, and deduces buth from them. Taste supposed to be a Jaculty by some - by others an Opera: tion of the faculties - If it be a faculty it is something similar to the Moral Jacuety. - Reflection is confined to single objects - Contemplation glends to a variety. Measures of the Jenses, & mind. pain appears to be the ha= tural state of man, since his fall: - slea.

Pleasure being artificial, or the effect of she muli whom the excitability. absence of thea. : une is pain; as the absence of Hirmuli is death. - Pleasure greatest in civilized Life: as there, there is most sensibility. - Lavages have pain from want of Densibility-hence they have anhabitually sour countenance They have mith - but no pleasure . pleasure of the sense of touch, is greatest in perfect health. This sense is much dis. cordered in some diseases. The Pleasure of Touch is greatest in the propagation of The species .- hept greatest, is hipping a sweet, pretty girl: - the nept, holding & squeezing her roft hand, de. When a feller has the Liberty of playing with his sweethearts hand, he has made considerable progress in the courtship - at least, a good beginning. a second pleasure is from the temperature of the air, as in Italy- as spring in England. June in america, It. R. has observed, has afforded very agreeable sensations. - a 310 pleasure is from breathing dephlogistica. ted, or oxygene air a 4th, bleasure of the

sense of touch, is from the barn bath .-5th from the action of Walking after long rest- reding- sailing - hunting -Is. supposes the pleasure from hunt: ing arises from the rocks which they es. the citizen who went a hunting. Tailing in a balloon quickens the Julse Is strokes in a minute - may be used as a remedy at some future day ... oth. pleasure, from the action of some med: : wines; & aliment, on the alimentary canal . - The sudden relief from hain, as Colic, or Labor: pain aids the hemo: : ry - as whipping when planting a land; mark, de. - Oth. from soft substances in contact with the skin, as furs, be 9th. from combing, and looking the head, & suchling. De. 10th. Rest after fatigue, de. - an her = maphrodite sensation is felt in techling, sleighing, be that is, a migture of hair and pleasure, one more; the bodily pleasure faying. Butter, who died hov. 4th. 1791. raid it was not so hard to die; but why

Thenter wish of a pen diet to recoff the pleasur of dying! Touche is con sense of judging of the properties of bodies. There is a great pleasure in feeling the thin of children of go to months of age. Decem. bth. Lecture 21st. . It is difficult to draw the line of distinction, between the Mind of man and brutes. - Man is social animal; To are some brutes . . Man is said to differ from brutes, by anticipating; The Indians do not anticipate. Man is progressive in Know. ledge; so are brutes; as the learned sig, k. Brutes, however, do not possess the sense of Touch: They are unable to acquire a knowledge of tools, &. to speak rationally. They are go: verned by present pleasures and pains; They cannot abstract ideas - have no sense of Derty: - Man is as much a religious, asa social animal: Brutes were never knows to pray: - The most confirmed Atheist, when underly taken with violent pain, will call whom the deity with the utmost whemenes - The Heavenes of Faste .. If man were only called to eat, because it was needsary to his time the would often permit others.

things to interfere; but he is impelled to that important, life-preserving process by another powerful incentive, viz. The Bla: sures of the sense of Taste. This opera: tion is called for by 2 prompters, Thing: er, and Habit .- The objects of this sense are stremely humerous. High-seasoned, or delicious aliment, soon pales The ap= : petite; but that of an meified hature, as bread, k. we relish all our lives. It is probable there remain many new pleasures of Saste to be discovered. Dis: eases have often been cured by induly: ing the patient in that for which he longed: - as water, much & milk, the total for, but by the Bleasure it excited on the sense of Taste . Theasures of Smelling -Every mead, every plain, and every grove is tributary to the pleasures of this sense. The Rose stands first on the list of pleasant , I down; - herbaho the sweet- seented show next

The pleasure from Odors is increased by mig--ture .- By dew- as flowers are most fragrant in the morning ... The odor of flowers is im? : proved by domestication, or being transplanted; but their egguisite hues are impaired by it. just so with birds; Their plumage is injured by confinement, but their melody improved. Tarte is liable to perversion- as is evinced by the use of Tobacco, afsafatida, It. The mull of Flowers, &. is medicinal; which consti : tutes one advantage of country air to con: : valercents .- The sense of Jaste is increased by diminishing the other senses. There shall we find language to describe the pleasures afforded us by the Eye? different degrees of Light, afford different degrees of pleasured the color of objects is pleasing: Children & savages, select a piece of gold first; nept silver de. The figure of objects affects the pleasure of the sight. round objects are most pleasing. Hogarth's Line of Beauty is curved . Man the best cur: wed animal; therefore the handsomestaA Horse is said to be the next in beauty-We have an innate admiration for ro: : tundity - motion affords pleasure to the eye - motions should be slow to be graceful. - Tublime objects give pleasure as a volcano a cataract, de . -Contrasts affords pleasure: Hence, in a Wilderness, a garden should be re: : gularly laid out; & in a city it should be irregular, & like a Wilderness .- Plea: : sures of Hearing . The are surrounded by this pleasure: first our mother's voice; afterwards the voices of our fel: : low-creatures; The music of Birds; The noise of quadrupeds; of Insecto; of treezes; dropping rain: purling rills; be. pleasure, or good, pridominates great. : by over pain or evil. . The enjoyment of the pleasures of the Jenses, are nearly equal on all tanks while the monarch is delighted with the concert, the clown is ravished with the thrumining of a banjar - The lose mucles as plearantly

to the milh-maid, when she is rigged up as it does to a princes. The pleasures of Taste and Smell are of the shortest du ration. - To highten pleasure, Louis XV. used to unite a bed of roses, a concert of Muric, and Cortion! But they are discordant - we can attend to but one thing at once. Proximate Cause of Dleasure- Motion is exertial to pleasure. - pleasure consists in a certain limited, definite motion; and a regular order of the imprepions which a les degree of those motions which cause pain - a high degree of distention produces pain; a life degree - pleasure - Violent Himuli produce pain; les vident, a moderate stemuli give pleasure. a large dose of Opinson, thints, be. give horris sensations; while a certain quantity of Those substances afford the most sphilirating. - pleasure and Bain are therefore different degrees of the same things which is - motion

Decem. Th. Lecture 22nd .- Pleasure is a more quality .- Weak impressions become acute, as water dropping on the scalp; while strong ones become weak, by repetition Hence the reason why disagreeable impressions beome agreeable by habition Measure, like pain is tesseried by durotion .- Opium allevi: ates pain only by being a stronger sti: mules than the cause which produces The pain .- Final cause of pleasure, is To impel us to eat, drink, geneise, propa: gate our species, de de Dleasures are so nearly related to pain, (being only dies. ferent degrees of the same thing, that They often terminate in/ pain - / stea: : Steres of the Mind .- They are of twohinds;-The Measures of exercising our own fa: culties; and of observing the operations of the mind in others . First, of our own faculties: - The pleasures of memory - By means of This faculty, we live, as it were, our Lives over again. The enjoy pleas sure over & over again by recollection: Even the rembrance of pain, by repetition, reduces the mind to the pleasurable point.

point .- pleasures of the Imagination .- By this faculty, we enjoy every thing desirable: the can ever command legions, and build cartles in the air! - Pleasures of the Understand. ing .- There are derived from a variety of sources, as the discovery of Truth, In - pleasures of that faculty, or operation of the mind, called Taste. They are very equisite; as in viewing the beauties of nature Vart .- Dleasures of the Will. consist in the freedom of willing & acting. - The pleasures of the passions. Those of avarice are very mean & groveling; but those of Friendship and Love create a little heaven whom earth. The Pleasures of the Moral Faculty: It would require a pen made of a quill, plucked from an angels Wing, to describe these plea: sures: - perversion of the moral faculties; the see this in the pleasure some people take in cruelty, Le .- a man, fand, O'shame! a ha: tive america once declared, that the most delightful housie to his ears he ever 4: herienced, was the hoise of the Guillotine Agriculture 20 or 3 s persons! Pleasures to form these the sea-beaten mariner, centre their hope in the prospect of ending their days on a

Jam. - Pleasures derived from the ex: ercise of the mental faculties in other people: - These consist in hearing trations, de. de proximate cause of mental plea: - sure . The mental faculties act whon every part of the system. The propimate cause of mental pleasure, is an equable, moderate distension of the Brain. - mental pain is owing to too great a distension: but it becomes agreeable by habit. - an Ugly Woman when once loved, is loved harder than a handsome one! Certain studies at first disagreeable, become agreeable by habit . - Is it likely that such a compli: cated Jabrie as the human body was only disigned to support us through through the short period of human spirtence ?- Certainly not .- It was de: hart, by affording Wirdom & Knowledge. In sh Decem. oth. Lecture 23rd. - Mind trans: farrable to other parts, when the bain 22 11 is wanting - like the senses when their organs are deficient mun) is supposed

to be transferred to the Medulla obloquita or spinalis. - Sensation & Thought whose Themselves in sleep, like mucular motion in rest. - Llech in one respect, a timbeney to death: - consists in that point of de: bility, happily called by An Brown, the "sleeping point. - Excitability is not a fluid-which is wasted to produce sleep, De for sleep may be induced at any time, Heep throws the south telility of unepercised parts to those where it is worn out by exercises. By this mean it has a tendency to Life . - Cold feet & headache at night are removed during sleep. Causes which induce sleep- are either Indirect or direct .-Indirectly, sleep is induced by labor, when it is very agreeable. Large meals, liquois, ofriates, le. Certain sounds - Heat after shower to cold .long spercise of mind, &. These stimule induce sleep by reducing the excitability- Remote cause by abstracting stimuli-as evacuations - oil on the - thin - cold wenery - copation of pain - sedative pafsions, as desprise Hence the disciples of our Saviour sleft drawy his crucifizion. When the system is below the sleeping point, walking, riding, cating mall doses of opium, to raise the speitement to

the sleeping point .- Some sounds warmth, as pediluvium - 2 apapatida fills have indu-: ced sleep when opium failed _ certain acts of the mind, which are similar & dull, as counting 100 backwards Light of morning_ I in night a small taper have often procured sleep. These stimuli should act equably. Heep begins by a pricking of the eyelide difficulty of keeping them fren debility - stuport . Harting in sleep, is ow = : ing to the too sudden abstraction of ti: muli. abstraction of sensation & voluntary motion - W. take place ... 2nd. We lose our irritability & .- Involuntary motions slower in sleep. - Jacobse slower & fuller in sleep - perhaps the heat of the bedolothes help to make the pulse full. as well as the straggling excitability of the mureles con: centrated in the arteries. - Peristaltic mo. tion of the Intutines before during sleep all the secretions increased, & exerctions de: : creased in sleep - Henre great Sleepers become fat. The heat of the body is diminished during sleep: - according to Hunter & Bush - but increased according to Darwin . The system

is weaker in sleep-hence gout & fever attack during that period. Children sleep much more Than adults - Old people sleep little . - 8 hours are long enough to sleep. - longer injurious. Few men have been distinguished who were great sleepers - Term of sleep is formed by apor :ciation .. a man once sleht 14 days & hights, I on waking thought he had slept but a few hours the awake more suddenly than fall asleep - moral Faculty greatest in the morning Therefore, always make bargains before break--fact .- morning productions better than those which smell of the midnight Lamp. The bodily strength least in the morning- Courage tep in the morning- Direct debility then predominates. - Invalide should never travel before breakfast - nor till gor 10 oclock - Tome old people have said they sleft none, and were yet well - but they do sleep . They wake unconsciously-like going to sleep. - Cause of Steams, They depend whom imperfect sleep - or partial excitements magination is more busy then than any other faculty. - Collapse of that part of the brain which is the seat of a Jaculty, occasions dreams, which, to that fa:

Jaculty are abound. mental Taste also suffers. The never dream of any thing, The materials of which were not previously in The mind - Nihil est in intellection, guod non prins fuit in sensu. - Dor: mant ideas are often revived in slup by aprociation. Some are recollected after : : which some are not mages are more vivid in sleep than waking-owing to the abstraction of other itimuli. The Will is more powerful in sleep as in the emisio seminis. Do me always dream? Laborers dream but little. M. Stuart. never dreamt after living wholly on veget. ables .- Locke thinks the mind sleeps. We sometimes dream without recollecting it - We sometimes recollect dreams by association during wakefulness - & diving Heep, we sometimes revive former ideas; and that by the same hower ... It. R. agrees with M. Locke; & also believes that dreams are morbid Munomuna. Ha men dream a great deal . - a full or empty stormach full bladder, de. cause dreams. The dream most in the morning ... When we fix an how to wake we are watered by the stimulus of the Thought ... Decem. 9th. Lecture 24th. Suppose the Heeps ing point to be at 20: When the spectement is above or below the sleeping point, Heep cannot take place . - When it is above this, The Ternote causes are the abstraction of stimuli; - When below, they consist in The application of stimuli, which raise the excitement to the sleeping points We wake at any hour we fix upon probably, by the memory not completely subsiding . - Tome people, particularly of ones, have related stories for facts, which They undoubtedly dreamt; by not being able to distinguish them from reality. Hunger produces dreams about eating - an his mis mister who talked much in his sleep, once lay with a voy who ran a him in his back; This enabled time to form a concet idea of a prapage from scripture, which he did not, herhaps, understand beforefor he exclaimed "Oh! how I understand what paul meant by a thorn in The Flesh Jomnambulists forget what they say or do in their steep- to do Dunkardo, dum Intopication - the

the cannot recollect ideas when too great solicitude, or excitement exists; but when it is lowered to that point at which the memory can act, we recollect them. When the gettement is not high enough, a walk, a glass of Wine, conversation, be will do it. Lovers do not dream of one another. scept at the beginning or declen: sion of passion; for during the height of it, the spectement is worn down so in the day, that none remains for night .- Dreams are not super: be for the good of manhind; and generals I statermen, It would dream the most. whereas they rearcely ever dream; While every old woman is presoging The fate of a cream-jug or pitcher by her dreams! - It disagreeable dream the patient should use gentle spirier, to The Jinal cause of thep- is the recruit ing the powers of the body & mind. pain is relieved by a recumbent porting

papions will subside in a recumbert porture: Therefore a fellow should always go to bed when he gets in a rage! Dreams contribute to support animal Life. Aliment. man is a carnivorous and a phytivorous animal; the conformation of the parts subservient to nourishment prove this; as well as his being unable to preserve health & strength withoutet. It is not barbarous to hill animals for our support; - It is doing a kindness to them. I prevento them from dying with disease. It allows them all to live a time: whereas they couldnot, if allowed to multiply as fast as nature prompted; for the earth would be o : vernun . - By this permission to live their term, they enjoy the animal pleasures; and to a greater degree than man; because, enjoying fewer, they are greater in proportion. Decem. Noth, Lecture 25th. _ Relative salu: brity of aliments, is a subject much con nected with Therapeuties. a moderate use of agreeable diet, if the stomach will bear

it, is always wholesome. The appetite & stomach ought always to be in Unison; for, if aliment, however agreeable, do not agree with the stomach, it is unwholesome. Wholesome substances, though disagreeable, should be taken; as some Medicines de. Uliment, in this country, is generally taken 3 or 4 times a day - I surpret then, like horses, should eat constantly; or at least, often and but little at a time. a small portion of aliment constantly in the stomach is most consistent with propriety: - during long intervals between meals, Tobacco & spirits are used as sti: mule to supply the place of food; and after exceptive meals, which induces indirect debility, Those stimuli are thewise used to keep up the yestement, The evening is the best time to eat a full meal. Pert should not be taken horizontally after a redundant dinner. Heeping in a chair is not good neis ther; for the head goes away and occasions headachs, k. a semi-recumbent is the besten Lying down after dinner is a bad

practice. Taking spirits & bitters before meels, is injurious. a small portion of some solid aliment, as rarins, bisevit, de. is much better. It is not good to dilute The food by too! much liquid of any kind. From half a pint, to aprint, and that at the end, or latter part of the meal, is quite sufficient. - after epereise, it is injurious to struggle half an hour at carring a tough fowl - hose animals should be cut who before they are brought to table. Drinking Healths is a bad practice at meal times; It interrupto all at table and causes some to swallow their food without marticating it; or perhaps, chook them, in attempting to wallow it, in order to thank the one who drinks to Their very good Health. It also shoils the relish for aliment by distracting the attention - Eating should be done in silenes aliment is divided into animal, & Vegetable. The wholesomeness of food depends whon its solubility in the tomach; as do its mutritions qualities.

The solubility of aliment /animal/ The flesh of females is most whible-That of males cartrated, the nextanimals which have fattened slow: : by, have the most soluble flesh. The practice of chasing, or baiting animals, ren-- ders their flesh more roluble in the Stomach .- Some flesh is rendered more soluble by being kept a while-but his. goose, & duck, ought to be eaten the day after hilling, especially in warm theather. tolubility also depends upon the meat being thoroughly cooked-likewise whon the moderness of the death of the animal: as by cleetricity. - Reeping the Entrails in fowls hastens putrefaction; & gives a disagreeable ador to the flesh .- Dutre : faction does not generate animaleula. South is the most wholesome aliment It should be the first dish - it damps The appetite, & prevents excep in cating brothy should be made stowly- kept near the boiling point - say 200 heep The pot, or refret very tightly covered.

the ought always to direct how animal Food should be cooked for sick people: It should ge: -nerally be boiled; - roasted meat is more stimu · lating; and therefore mitable when tonies are re: quired. - Deg Muller, the famous beef steakroastires roasted them on a smooth iron, which made them remarkably tender, and retained all their juices - The crust of Meat-fries generally disagrees with the stomacho of the rich- this is diviated by making the parte one half of potatoes - the others half of flour. - Hewed meat. is more mutitions than boiled - for it does not part with its juices so much . Fried meats are not easily digestible. meat cook: ed in a vapor is very good. Fish is an intermediate aliment between animal & Vegetable - very proper for hwalids, & convales = cents-after acute diseases .- Oysters are easiest digested when eaten raw, or warmed before the fire. The flesh of land animals should not be eaten with fish - They disagree - except the former be salted .- Fish are said to favour proceedion; but it is the spercise of the Fishermen; not Their food which is so favorable to multipli:

cation. During Lent the people used to live wholly on Fish; This practice ought not to have been laid aside; for it washeld at the time when land animals were propagating their species, and were unfit to rate. The nutritive qualities of animals are various quadrupeds posses most nourishment Birds next. - Fishes hept. - amphibious animals hept, and insects nept. - Eggo are of a compound hature. The yelk of animal, the albumen of a vegetable nature. Sound eggs have always a warm end-discernable by the tongue . yelk is most soluble - hence most proper for weak stomaches - begetable food constitutes the greatest part of the food of man: : kind .- rejetables should be boiled a great deal ... Though cabbage is best when voiled about to minutes: It should not be boiled. with meat .- Milk constitutes the food of all for the first 12 or 15 months . - With our food we use condimento . W. Salt, all children like it a tearpoonful of salt after a full meal would be better than any dram. Vingar is very good. on summer our food should be will spreed Mustand, & Horse-radish should be used mode: rately- They impair the tone of the stornach when used in large quantity,

Decem. With. Lecture 26th. Methods of preserving meats. - drying them in the air or sun-by freezing- by smoke in molasses, & and by common salt .- Meat is best preserved by applying salt to it while warm with Life. - Salt meat is more wholesome than Jresh in summer. - There are two good me: throds of preserving hams-viz in cut straw, and in separate bags. There is another method of heeping meat in the state of portable soup. - Aliments are nourishing in proportion to the sugar they contain. We can eat more potato. Than parsnip because the latter contains more nowish. ment. - pork is more nourishing than Beef because it contains more oil - The hourishment a substance contains is in proportion to the quantity of sugar and oil .- The quantity of aliment heigh is different people- Old men require more than middle-aged. We require more food in Winter than summer to kich up the excitement. - The quality

also, of food must regulate the quantity .-We require twice as much begetable as ani: mal food: 8ths. ig more than most men require in a day - The stimulus of disease, thinking, & supplies the place of food .-It has been disputed whether food should be taken warm or cold - Warm food is the better . Tea & Offee contain no non: rishment, except the rugar & cream which is blended with them - but they spert a stimulus in another way They gently stithe whole system through the medium of Coffee news both fine stimuli- They prevent glut: tony and sottishness- It Johnson - They are good after great fatigue of body - & of mind after great meals- intemperate drinkingtaking opium - good in grief - de. They should be made pretty strong- Coffee is better than Jea to procure watchfulness it keeps us tranquil, while Tea affects the nerves -Strong coffee aids the system against edd -. Coffee should be well dried, and moderately roast. more when drank without sugar or Cream

Tea has been said to be a slow poison - anthony Benezet, on being told this, replied, "It is indeed "a slow poison; for I have been in the habit of drinking it thest 50 years, and am alive yet!" SUMPS - fermented, & distilled - . Tweet Winesare most nowishing - led wines are least howishing White wines are the best for the Besple U.S. are more stimulating, &. - malt liquors abound in saccharine matter - it is good for laborers but not for sedentary people - porter is the best malt liquor - because it is older before it is used than others. always prescribe porter for sich people when malt liquor is proper-Cyder is good for Labours-but causes gout I theumatum in the sedentary it is in : proved by boiling - when I years old is nearly as good as Wine - Sistilled, or spirituous lights are bad- contain no nowishment. a thousand tongues could not sphaust the cutalogue of their baneful effects in every country! They are best, or rather least hurtful, in the form of Junch .- Water is the most salubious dink in every age and in every clime. The we we severish? Water - are we sust emerging

from a drunken frolie, oppressed with housea, De.? Water is the best drink to allay the sickness. This healthful & copious fluid seldom fails to ensure health blongevity. Cause of lippetite- Bouhaave ascribegix to vitiated? bile & gastrie juice - but commonly appetite is speited in a certain degree of relapation of the Homach; which is the hungry point - below this is anorepia hunger has great influence on the mind, morals, be - it causes men to hill I eat each other, &c. When the stomach is below the hungry point, cheerful company, & The stimuli, raise it to it - appetite is increased by high & dry situationsmay be suspended by Opium, Tobacco, & It may also be suspended by stimula: ting passions, or impressions mores on the mount_ Jone animals suspend the appetite by swallowing balls of mos, or resin Where is the seat of thirst? When drink cannot be had, thirst may be sus = = pended by washing the James with acid

Decem. 13th. Lecture 27th. Food is seldon swallowed unmasticated without injury to The stomach .- In what manner is food di : gested in the stomach? The stomach is a most important organ - once said to be the seat of the soul .- Diseases are often induced Through the medium of the stomach; but, Is A. believes, oftener sphelled - Digestion is of feeted mechanically and chemically-by trituration and solution. Dr. Diteaining assertion that the stomach populses a force equal to 12951 pounds, does not deserve to be contradicted Interation does not do much towards digertion - putrefaction does not assist. The gastric juice and Saliva chiefly effect digestion, by the aid of heat, & solution and servent totos . Some a. mimals Jefsels more gastrice juice than others-or flush opinion of organism in man- and still more active in children & do people than middle -aged .- The gastrie juice acts most easily when the food is well cooked and masticated .- The gastric juice has been said, by Ins Hunter, Beron

crode and diplove the stomach after death- Dr. 1. is doubtful of this - he is disposed to ascribe the erosion & dissolution to other causes. There is a disposition in certains parts of the bo= dy to dipolution, from inflammation; de. To inflammation & mortification he think, those cases of erosion are to be attributed. Spalanzani Jound digestion to go on after death while heat remained. The peristaltie motion of the bowels is continued after death; as we see by the discharge of excrements The gastrie juice coagulates milh, as is prowid by the use of remnet, or calves stomaches Sermentation is rejected by the moderns from the list of the agents in digestion-but It. R. says he will defend it - There is a Jash: ion in finions as well as in drip- 4 circumstances are necessary to fermentation; vis heat, mousture, air, and rest- These all attend when digertion is well performed_ There is a deficiency of gastrie juice in Bys: pepsia as when smoking or chewing of tobacco is carried too far - The contents of the

stomach are acid 3 hours after deslutition, which proves fermentation to be anagentin digestion- much motion after eating prevents fermentation, or hastens it too rapidly- The heat of the stomach is favorable to it - The sa: -liva contains air. - phenomena of digestion. I. a slight fever comes on after a full meal. Therefore we should eat heartily when we go into the cold 2. Steepings arises from indirect debility, induced by a Jule meal. 3. The mental faculties are affected 4. a dis : position to rest patients in chronic disease. should cut little and often - apoplepy and death are often caused by fuel meals in delicate habits - The passions influence digestion- Cheerfulness promotes it- grief re tards it Is there not an increased influpg hervous fluid /call it what we will to the stomach during digestion? Food after passing The Joylous is called chyme - and mipery with the other fluids, forms chyle, I the basis of the Jaces - The chyle is taken upty the lactuals - Jaces pro

Decem. 14th. Lecture 28th. - We have supported the doctrine of a fermentative process in the stomach- The experiments, however, have not been complete, so as to justify a decisive conclusion. - We now proceed to consider the Blood; which, Taken collectively, is a homogeneous majobut spontaneously separates into two divisions called Crafsamentum & Serum- The crafsamentum is subdivided into Lymph & red globules - de The blood coagulates, in health, when exposed to the air. The layer the stream of blood from a vein, the slower the coagulation - It coaquilates slower in a deep, narrow veful than in a shallow one -. The blood afournes in appearance, from a variety of causes, which is denominated siry The blood of Women who have been 5 months pregnant is generally sizy It is mostly sizy in the Thing of the year-after service, &c .- There is a state of the blood, wherein his separation takes place - This occurs in the highest grade of

morbid action; in consequence of the violence of which, it becomes disolved - Blood drawn from the arteries is dissolved? - a young Gentleman who graduated last year, Iposed himself to a heat of 140 degrees Fahr. by which mean his blood was disolved hence it is not owing to a ferment in the blood, as It. Cullen supposed. It is owing to vislent action. It is specifo of Seriem which occasions dropry - The red globules are not quite globular - They are not vily, but inflammable jowing to the opygene they contain 1- good health is connected with a proper proportion of opygene - it gives tone to the blood & fibres. It is sometimes the cause of disease. The blood contains a portion of air - It is an opentice mean of sensation & How various & wonderful its uses in the an mal economy! Ilymphatics- The Lacteal are included in this system - they are fur : nished with valves The lymphatics original from the whole surface of the body, papthis conglobate glands, and terminate in the thoracie duck they have coats analogous

to bloodrefsels, but stronger - They are capa: : ble of retrograde motion - vide Darwin - How is the chyle converted into bone, tendon, It is done by secretion. How is it taken up by the lastealy? St. R. supposes it to be by attraction - action of the arteries? &... Lymphatics are to be found in every part of the body scept the head but many circumstances justify the opinion of their Exitence in the head for instance, hydrocephalus, & . Veins do not absorb lymph_ they absorb solid matter to. The lymphatic and sanguiferous systems are at conti: mual stripe with each other to poisons whon the skin do no injury- mercurials, &. to not act until they inflame (I denudate?) the shin - attend to this fact, gentlemen more & presiments are necessary whon this subject. This, however, is a fact, bariolous matter cannot be communicated by the skin, unless denudated. If it should be found that absorption does not take place on the

shim, it will prove that the plague is taken by contact the. The lymphaties are excited into action by distention &. They perform important services in the animal economy- They may be compared to scavengers - Travellers through the desarts of Nubia carry wet sponges to their mouthy- The unwholesomeness of stoverooms may be remedied by setting a vepel of Water on the stove - It renders the redun dancy of sensible heat, latent. When we reflect that the Lymphatics, which are now known to be of such optensive use in the animal economy, were discovered no longer ago than 1652, we ought to be modest in our attainments, and look forward for mou discoveries; ever of greater consequence than the Lymphatics! Decem. 15th. Lecture 29th. _ Secretion_ Dr. R. began this Lecture by acknowledging that he knew no more about secretion at present, than he did when he began The study of medicine. - glands are a

very important part of the body- They are proved to be vascular by the injections of Ruysch -. The secretions are limpid, visuid, ceruminous, de. The different secretions are supposed by some to be effected by the different formation of the glands - Others suppose the varieties are produced by germentation_ Dr. Rush inclines to this opinion- He means by fermentation, a new combination of the simple parts of the fluid. The secretion & formation of varidous matter Javors this idea -Glands are like closets in a well- Jurnish. ed house, which supply the various wants of the household - Different secretions - Lymph; Saliva, gastric juice, pancreatic juice, mucus, Synovia, Urine, - a direct papage from the prima via to the bladder; or else a retrograde motion of the lymphatics-Jemen, - it becomes thich by standing, or remaining long undischarged. Thin and bloody by Onanism - mucus of prostate

gland, milk - St. R. inclines to believe that milh is secreted immediately from the Chyle, after it is poured into the bloodvefels, because so great a quantity is secreted in so short a time - The secretion of milk is much influenced by the passions. Excretions. Foces, - Alexander the great, observed that his praprion for women was the only thing which prevented him from beleiving himself a god-but, says Dr. R., he might have found a much more humiliating criteri: on of humanity, in the necessity which The human species are daily under, of making this disjusting & loathesome sportion! Bile, has long been considered an scretion but it acts partly as a secretion. The Liver is a manufactory of sal ammoniae - The hatural color of bile is yellow - acids make it green malignant fevers render it black It overflows du ring violent passions - mad people have a great flow of it Mydrogene gas affects the Liver she : cifically - so do marsh miasmata - jat is an speretion. The overflow of bile in mania is not the cause, but The effect of that disease

Decem. 10th. Lecture 30th. _ Excretions continued perspiration . We know there is such an excretion, by washing the arm, & sphosing it in a glass-the perspirable natter then becomes visible . It is merely discharge from the optumeties of the small arteries! It is composed of water, salt, and carbonic acid gas renders lime water turbid - sptinguishes a candle when put under the bed-clother. When long confined in clothes, de. it generates Typhus fever-Is the odor it emits a specific quality, or does it depend whon circumstances? a Carpenter emits much more than a Wateh maker, ceteris paribus, as it respects health & constitution - This pertion is dif: ferent in different countries. Dogo dis: cover their masters by it - It ld us of a man who could tell by the smell of a Lady's perspiration, whether or not the had lost her Virginity! a Lady had a Cancer which discharged a mild matter when the lived on vegetable diet but a

a single meal of animal food would render it Extremely Jetid - Spirits of Surpentine have been omelled in the perpiration & weeks after taking them - & . - miasmata are said to float in the system 20 days - &. R. believes they may much longer - Is there any differ: : ence between sweat & insensible perspiration? Dr. A. answers ho. There is a constant harmonizing between the perspiration and Unive in health _. a decrease of perspiration is followed by an increase of thine. The perspiration is sometimes sweet, as in dia: betes - sometimes heid - sometimes saline sometimes fetid, as in malignant feverpatients seldom recover after these / fetid? / sweats Sweats are sometimes viscid - sometimes yellow_ sometimes bloody, from & treme a: sony There is a plant growing at hatches so stimulating as to produce this sweat-The quantity of perspiration is different at different seasons, and under different circumstances. The discharge by perspire: tion is greater than that by stool & Unive

both - In England, 333. is perspired in a day-In Haly, 5? of all the food taken is perspired -Thus heat influences it passions, grati: fications, de affect perspiration - We per: = spire double the quanty in the sleeping, to what we do in the waking state hence the advantage of lying in bed in the beginning of fevers, & Nutration Dr. R. was once of opinion with Cullen, that the herves were the agents, or sources of hutrition - but he has long since charged it the now believes with Monro that historion is performedly The artices - It was formerly supposed that the herves were the part of the body first evolved but the arteries are formed first of all - Or, at least, are first in action _. order of Life, or action - first, the blood acts upon the arteries the arteries upon the train and newes and these react upon the body or muscular parts . Valle considers the origin of the herves to be on the surface of The body and their termination in the brain the The idea is a good one - Dr. R. is disposed to adopt it. I hourishment were conveyed through the medium of the beain & herves, there frants would bear proportion to the size of the animal but this is not the case - a limb will be now; rished when the herves a destroyed but not when The arteries are . The conveyance of the coloring matter of madder to the bones is also against-This doctrine of the nerves - peculiarities of Females. They are, in general, less than males - acquire their growth sooner - their simple solids more delicate. arteries posses more contractility herves more sensible the brain more mobile ... Bones different - Joel: vis wider - Organs of Generation different-fas e: very body knows! The periodical discharge from the Uteres is peculiar to Jemales - Their treasts secrete milk- They move the Thorage in lespiration - whereas males move the ab-: dominal muscles more -. This is so conshi cuous that a shysician of discovation can distinguish the sex by it in children of one or two years old when in their proche The voice of Jemales is more Jost and shrice

than males -. The Female Mund is not originally like that of males-but is as different as their bodies. Temales are the avenues to Reputation in Medicine, and therefore their mental qualities & powers ought to be well understood by Physicians - Temales have a leso vigorous and comprehensive Understanding Than males - they soll males in amagination -They speel in the recollection of events & words, but not of ideas - hence the Indians commit their traditions to their Squaws-Women are superior to men in point of Taste, as is shown by their dress, Se. young men who keep the company of Ladies improve much in behaviour, taste, &,-The moral faculty is more acute in Jemales; and more active, but less generalhence they are more devorit, be. - Timales have more charity than males, but less benevolence They have les Conscience than males! Their serceptions are quicker but their leasoning powers are Weaker my

They have les courage, but more Fortitude. They are more communicative than males Women tell other people's secrets but men tell their own - Women are less disposed to forgive Injuries than men -. Let not the young Champion for Jemale excellence, says Fr. R. - think that I detract from Divine Goodness in making these deservations ... Do not suppose I am part that period of Life wherein I can take pleasure in Jemale Society- This is not the fact. This difference in the Jepes is essential to Love and Harmony - Timales are leso given to venereal appetite than males - are more modest - They are different, even in the Womb. Catamenia - This occurs, in the middle states of America, about the age of Hy years - & ceases at 45 or 50 .- It occurs sooner in high Life than among the laboring class- and con: tinues later. Three girls in Philadelphia began to menstruate at y years of age -. at the time. of the emption of the menses in Oirls their breasts swell - They lacquire sepual ideas, &

become in every way more agreeable - Women who drink hard, menstruate till near bo_ This discharge has returned at 70 - Some women menstruate all the time they give suck. The quantity of blood discharged at one period, is from 3 to 5 ounces- the discharge continues from 3 to 5 days_ When The menses appear during lactation, they point out the time to proceed with the duty of Child-bearing ... lause of Menstruation. most buters agree in ascribing it to see-Mora, either general or local .. It. is disposed to ascribe it to both general & partial plethora. It is first general, and then local - The inefficacy of bleeding in preventing this discharge argues hothing -. perhaps its regular appearance is owing to the influence of afsociation menstruction may be called an Homofitisis of the Uterus. Women are most susceptible of impregnation. about this period. Brutes are disposed to venery once every year, by a discharge

from the Uterus_ Women have a discharge monthly, and therefore, are always ready -. monkeys menstruate, - hence it appears, that like the human species, they may become pregnant at any season of the year. The Spring of the year is the common period with most animals - but there are several exceptions. Decem. 17th. Lecture 34st. The Sarts of gene: ration have considerable influence upon the body at about the age of 14 years. The voice changes - bones of the hose enlarge - body be: : comes more robust de. This change has been supposed to be owing to the absorption of semen but this is intirely hypothetical-It is owing, more likely, to the stimulus of the semen on the seminal befaclo;whose connection with the system generally is very gotensive -. The shrill voice, & want of beard in tunuchs, is owing to the ab: : straction of this stimulus. Even the stomach and bowels are influenced by This delightful stumulus. In females, at The age of Buberty, there is a distention of the

Uterus which occasions other changes .- 10 years in Temales, and It in Males, is the earliest time we ought to Marry. There is no state in which mankind do not enjoy the venereal appetite - they possess it at all seasons. Monogamy is best to health, as well as to morals_ In this case, happiness and excitement meet together and there is no danger of excess. The Law of Moses, allowing polygamy, was a just punishment. a man then, by that Law, was obliged to marry & main: tain every birgin he defiled - As. R. thinks such a Law would have a good effect at the present day - Umphibious animals derive the most pleasure from Coition_ Frogs enjoy the greatest venereal pleasure_ bide Spalanzani. The male pog will suffer resign his amorous armfull! Conception. of this subject we may say that "Thadows, clouds, & darkness rest uponit",

It is now believed that the animalcula of the male seed are not the rudiments of young fatures. The female overn contains the germ, which is excited into action by the stimulus of the semen masculinum. How is the male seed brought in contact. with the overn? pregnancy has been pro-: cured by a penis but one-fourth its na: tural length- Conception has taken place when the semen was only inserted at the mouth of the bagina. Harvey sup: poses it to be effected by absorption. It. R. supposes the semen acts specifically on the ovem, as no disease occurs in consequence of failure of impregnation !- The menses are probably discharged by the Beristaltic motion of the Uterus and vagina-perhaps the semen may be carried to the ovaria by peristaltic motion. This is John Hunter's hotion? It is not so plansible as Harvey's -. Temales conceive readily after a spell of sickness-long absence from home - travelling to a new country, De. . lonception cannot take place unless

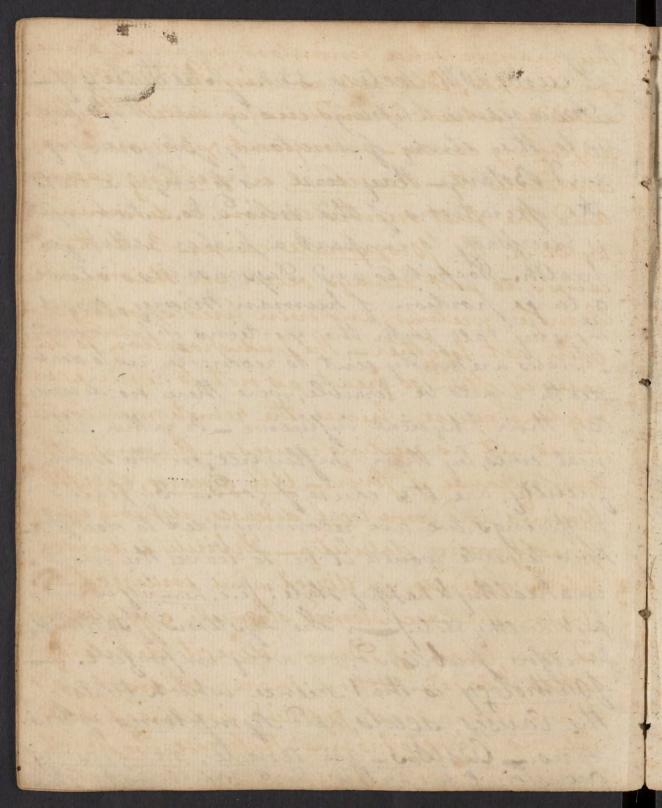
semen come in contact with the overn-It is succeeded by pains, nausea, &c. - These are owing to new action. The final cause of this hausea, says &. Hunter, is to pre: vent Inflammation. propensities a Lady assured St. R. that always, after conception, she felt a disposition to steal every thing the saw &. de. Jome have heculiar sensations as glowing of the leg, & .- others have none of what are called breeding symptoms_ The Temen is a stimulus of a pecu: liar kind it seems to be secreted, not only from the fluids, but from the solids not only from the body, but from the mind. Hence the resemblance between children & parents? - Having them always before Their eyes may have some effect. hence the general resemblance of people in cities - but there is a regemblance in infancy, before any notice is taken. Thus, Gentlemen, I have ventured to tear the veil of mystery .- our ignorance on this subject is owing to a want of sufficient observation. In future, says the prophetic I generation will be as well understood as chemical mixture is at present. Unimal Life, the Human mind, and Generation are, as yet, 3 profound mys: times. - Bastards are said to have more genius than those legitimately begotten. a curious author supposes it to be ow ing to the uncommon action of Their parents' minds, at the moment they are quatching the transient pleasure. Decem. 18th. Lecture 32nd. - Pregnancy-The ordinary period of gestation is 9 months; but authors mention cases of 5 & 13 months. pain is supposed to be necessarily connect sed with childbearing in consequence of The Curse pronounced whom Eve-but in some countries this curse is not known - Hence It. R. infers, that pain is not necessarily connected with particultion & childbearing. vide Bry done .- The turks take sweet oil previous to their labors - it acts by in: ducing debility, and thereby lessening

the pain; for delicate and feeble women have the easiest labors .- Bloodletting has the same effect .- This was Dr. Ris. opinion 12 years ago; and he is now more convin: ced of its truth . - The pain of parturition, Jolewing or the effect of disease? The marks which occur on Children at bith, have been ascribed to the imagi. nation of the mother during frynancybut this is Unphilosophical. The system is more disposed to plethora du: ung gestation than at any other times We have thus, Gentlemen, according to our Tyllabus, taken a view of the functions, de. in a healthy state when the excitement is regular - the secting causes & the soutability are equa: : ble ... It is thought, by some, that the antedilierian age may be attained to by the aid of medicine - But dust

dust thou art, and to dust thou shalt "return" We live here by force - and death is our hatural state previous to our en joyment of real life . - Fasting, medicating, de have been used in vain to avert the stroke of Death .- However, Dr. Rush be: leives it possible for man to attain to much greater age than is usual at pre: : sent .- Instance, the disposition of some to revew their ages; which seems to be an effort to regain the antediluvian age- Revelation Javors the opinion . t. It is only to be attained by physical, rational, and moral eauses! We now take our final leave, gentlemen, of the physiology, &. of the human body in a state of health, and proceed to The consideration of the hept division our Lyllabus - namely, pathology.

Contraction of the first property of the second THE RELEASE TENEDONE STREET, AND ADDRESS OF A PARTY OF and the second s

Decem. 20th. Lecture 33rd. _ Dathology_ Diseases are blefoings indisquise - They lead us to the study of anatomy, physiology, and Botany- they lead us to enquire into The operations of the mind, &. - Tickness is necessary to impart a proper relish for health. Hospitals and Dispensaries include a large portion of human misery, and thereby call forth the spections of humanity. Diseases are kindly sent to reconcile us to death; -death would be terrible, were there no diseases. By their physical influence - Or rather, My: rical evils, by their influence, on the moral faculty, are the cause of good .- By pains & sufferings we are recommended to death. How terrible would it be to leave the world in ahealthy & happy state! [i.e. himself in a hap: fry & healthy state - The Lystems of pathology heretfore published, are very imperfect. Bathology is that Science which treats of the Causes, seats, and Symptoms of dis: cases. _ Callses_ are lemote, predisposing, Occasional, or exciting, and propimate. They



They may be better understood by an illustration -for rample, Cold acts as a remote cause the debility which it induces is called the fre: -disposing cause - subsequent apposure to heat constitutes the occasional, or exciting cause. and the first morbid action is denominated by St. R. The propimate cause. But those causes do not always occur in this order-Chemote, sciting, and even predisposing caux often act together -. The predisposition to dis: sease is often so great as not to require an recting cause - hence the remote may some: times act as speiting causes. Miasma is the remote cause of fever .- All diseases, except Mounds, and some local diseases, depend whon predisposing debility. Debility is divided into two kinds, viz. direct and indirect_. When the accustomed stimuli are abstract. ed, or a part of them, direct debility takes place - When more stimulup Than usual is applied, indirect debi-lity is brought on. Suppose the healthy point to be at 50 - an addition of stigue

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stimulus would induce indirect debility. of stimulus be abstracted when the system is at this point /50/ of spectement, direct debility is the consequence. These two kinds of debility are so nearly alfike in their effects, that they are only to be distinguished by their speiting causes .- The Tange of predisposition is about 10 above and below the healthy point. Debility is the predisposing cause of all the evils in the World; both moral and physical. - Dr. K. is of opinion that there are no positive evils; but that all evils are mis: : placed benefits. Imall pop, meazles, pesti: · lential fever, &c. are not positive evils-They may serve valuable purposes .a count of bread in the trachea is not a positive evil- it is only a good in error loci. Miasma is far from beinga real evil-it is a coidial-supplies the want of food, be. If we could bottle it, & preserve it, perhaps a better cordial could not be introduced into the materia medica.

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It is only in an over-proportion, that it is injurious. How much more fatal is an over-dose of Opium? Yet who would contend that opium is a positive evil? What is poison to man, is agreeable to some other animals, & vice versa - so that the evil con sists interely in the error loci of the substance - Sain, bad smells, de are not positive e: vils; pain is a different degree of that which constitutes pleasure - bad smells are useful to some animals. - Vile insects, & are not positive evils; they are only evil in error . loci - The spider, which is so offensive in our houses, is useful in our stables. It. Moral evil consists in a desaugement, or error loci of the virtues. Owing to the If of the Will, the faculties become dis :placed - it is the main pillar of the men: tal Jabric - When the Will is destroyed the mind tumbles down. There are no new faculties introduced into the mind to create evil. It is caused by the derange ment of the original faculties. I sride is nothing more than misplaced dignity,

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Envy is dislocated emulation. Every vice is a misplaced virtue; or a virtue out of joint . This funion did not originate with Dr. R. It was first published by a M. Edwards. Bleasure is increased by contrast. The effects of hegative evil, are all positive. Debility is succeeded by increased Excitability Debility is the Inviting cause of that soite: ment in which disease consists. The Electri: : cal rod does not more certainly invite light:
ining, than debility does disease. The increase of excitability, which succeeds debility, is nearly The same, whether it be direct or indirect, provided it be brought on suddenly. - Disease consists in irregular pertement. There is but one remote and exciting cause of disease, and that is SUMULLS .- Stimu : lus is a genus !- the first effect of stimulus, is Tonce, then atonie, next writant; which in: : duces morbid action 1_. Equable speitement is health - irregular excitement is disease the art of healing consists in equalizing it. Debilitated parts in the body, likemin

The transfer of the property o The state of the s To be to the second of the second of the second of A STATE OF THE PARTY OF THE PAR The Law Steel and the Steel of THE RESERVE TO SERVE THE PARTY OF THE PARTY State of Mark to a large and by the to the total A Company of the Comp

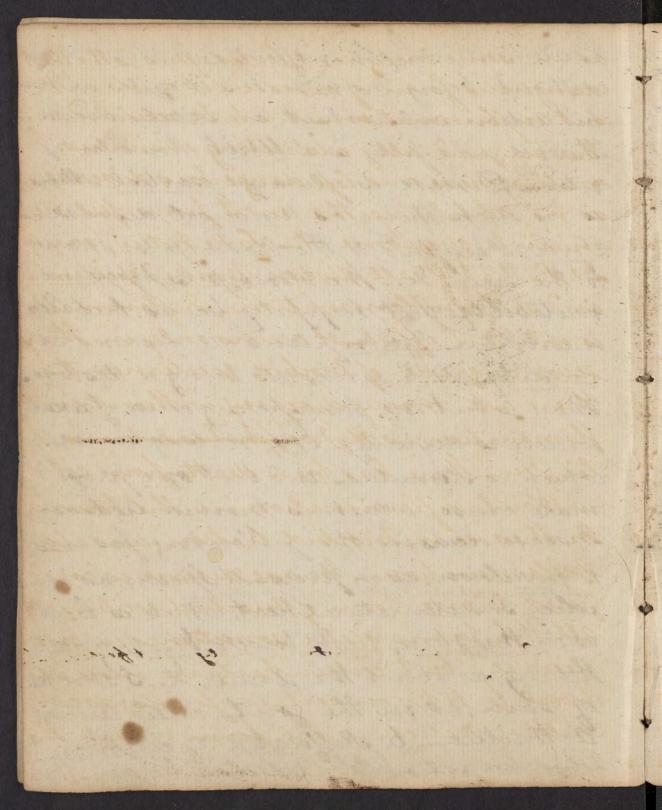
minus clouds, attract the plus, or excepive rectement of other parts, and produce an equilibrium. - pain is not a disease, but a symptom; like thirst in fever, de ... When I. R. formerly told his class that there was but one fever, it startled them; - He now apperts that, Mereds but one alsust in the Wolld! and that consists in irregular excitement. - Obstructions, schirre, collections of Water, de. are not diseases_ but the Effects of disease. There may be disease without pain, as is sometimes the case in Epilepsy, Hectic fever, &. .. When effusions, & produce death it is by reaction; thereby producing mor bid action ._ Dr. R. makes a distinction be: -tween Disease and Disorder: Hepatitis is a disease-obstruction is a disorder _. Thus, says D. R. have I laid open my The; : ory before you - I have been called a Bru: : nonian; but I am not_. Brown says There are asthenic diseases; I say there are none; artheria is only predisposition My Theory is so simple, that you will lose more than gain at my Lectures.

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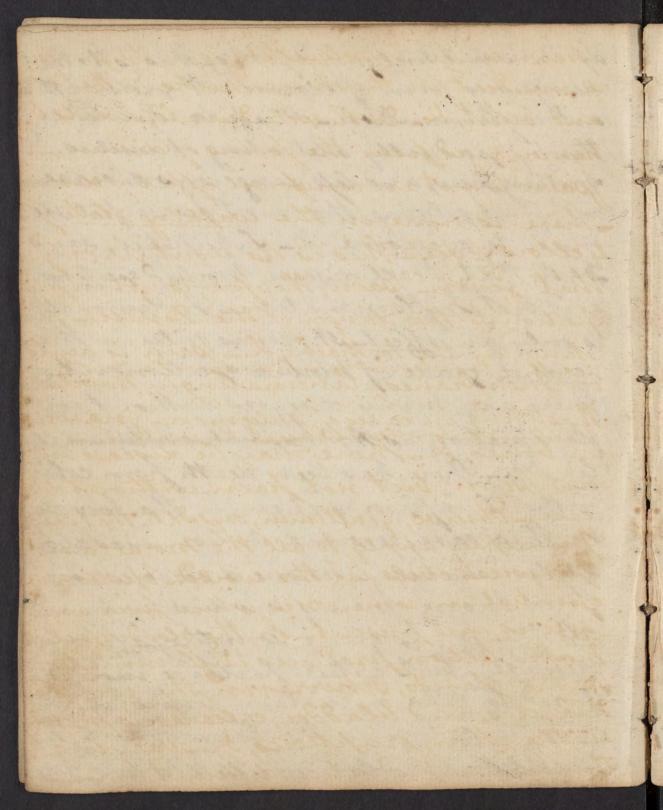
Decem. 24. Lecture 34th .- Cold is the remote cause of Inflammatory fever- the debility induced, is the predisposing cause - the heat of a stove-room, or vernal 1 sun, the speiting cause - and a convulsive action of the arte: rial system, or the disease itself, is the prox. imate cause .- Inprose healthy action to put at 50- when stimuli are abstracted, direct debility is induced. When added, indirect debility is the consequence. In chronic debility of both kinds, the spei: tability is expended: but when the Lys: tem is debilitated suddenly, either directly or indirectly, the quitability accumulates. Yellow fever may be brought on by betion, fasting, &c. - here the specitability accumulates -but if the abstraction be made gradually The excitability is diminished, and the mi asma has nothing to act whon . - Labours should continue their labor in order to escape yellow fever; for if they abstract the stimulus of labor, the speitability accu: imulates, and the miasma takes effect. Es

The mile I think aligh. The PROPERTY AND ASSESSMENT OF THE PARTY OF THE THE REAL PROPERTY OF THE PARTY The - Cale and The little The second second second Contract the late of the State of the said AND THE PROPERTY OF THE PARTY O the state of the same of the s THE RESIDENCE OF THE PARTY OF T consider the standard of the standard of the

Excitement may be excepsive, or preternatural, without being morbid. It is irregular, or mon: - bid action only which constitutes disease. Disease, like fire, is a Unit however ep= cited Disease is always partial-there is no such thing as Universal disease .-Tever is confined to the bloodrepels- mania to the brain, &c .- The bloodsepels populs great viritability-but, hapfily for us, but little sensibility. Brown places all diseases in debility- St. R. deries its being a disease. There is but one predisposing cause of disease which is debility - one speiting cause, which is stimulus and but one propimate cause, which is morbid action. Disease occursin the following forms; 1. Convulsion, as in fevers- 2. Spasm, as in colic_3. preternatural heat, which is local, as in the skin, head, bowels, &. _ 4. great Hehing, as about the anus, &. - 5 shocks of Jain, as in the gout-called aura arthritica - 6. Suffocated excitement, when sensation & motion are suspended



as in some malignant fevers- This is the most dangerous form of disease - it spirts with = out inflammation. It is to be releived ei Ther by gradually abstracting stimulus, & exciting hew, and less dangerous disease, or by applying the most powerful stimuli to overcome it. Take hotice, says Dr. R. that I call disease morbid spectement and not Inflammation - Inflammation is only an effect. It occurs only in the second grade of morbid spectement. There are many diseases without in: : flammation; as Hydrocof holes & tomes, Cho. : lie, de ... There has been death from colic without inflammation in the bowels; In this case, morbid action was above Inflammation. - no one disease is con: fined to one form of morbid scitement, all the Journs occur sometimes in one disease. but certain parts are more dis : posed to take on certain forms; as con: vulsive action is the form which the muscles and blood vefrels take on Than



Spasm in the bowels- Itching in the Jouden: :dum -. Heat in the skin -. Thocks in the head and breast, be. Dr. R. speludes cold, sweats, & hemorrhages from the forms of disease _. pain is not an uniform effect of disease There is none in the walking state of Yellow fever- This is the worst grade of that fever .- pain, therefore, is not in pro: : portion to the danger of the Disease - In: stance, in the toothache de. - sain is acute in duly in flough motors hat show on the shing the in membranes, - lancinating in muscles, throbbing in cases of shlegmon - grawing twiting in the joints, & ... There may be disease with out pain, but not pain withoutdis: ease .- Observe, Gentlemen, says &! K. that these principles apply to all the moral and Thy sical evils in the world . bleetion is essential in some cases where fever and mobil action produces inflammation in the glands, schirri; in the joints, hidneys, and bladder, calcareous matter in the skin, eruptions, &c. - varying The effect, or product, in different harts.

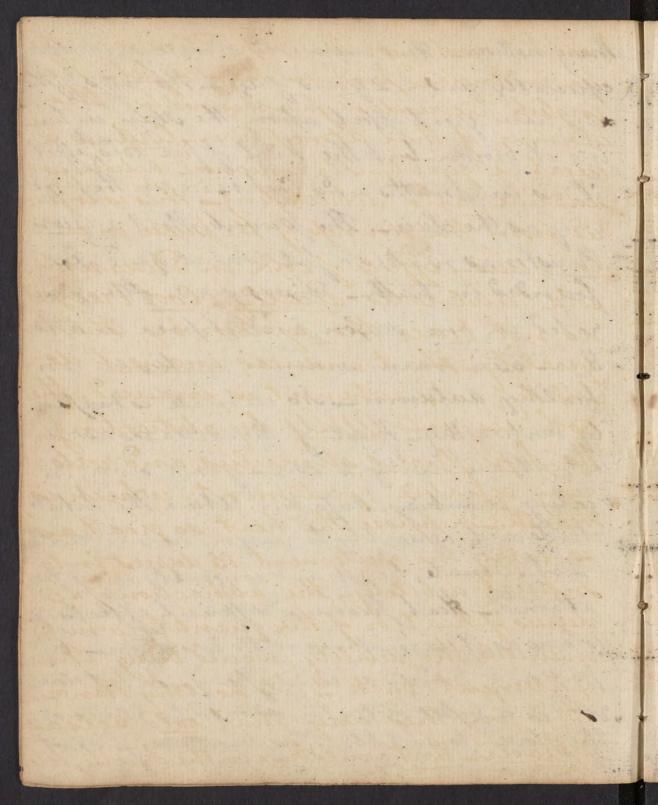
date the season of lack as be delicated and the second Their with the at surely surely they are the total hardinardes been sometimed but not passes a cely list all the monal recession the words.

Decem. 22nd. Lecture 35th. - Horms are of different forms; but, like disease, they are all owing to convulsive action as their proximate cause. Disease consists in mor: · bid action - Disorder is the effect of disease Kemote and Predisposing causes of disease -Children are predisposed to disease by the ill customs of mothers during pregnancy-and The bad management of midwifes duringla; : bor ... Washing children with spirits as soon as they are born is a bad practice. They are often injured by improper food by swad: dling clothes, be. - Colic is often brought on by nuises taking acids .- Children are predisposed to disease by premature study-confinement in schoolhouses and the tyranny of Jutors. many cases of Hydrocephalus are induced in children by blows on the head-falls, &c. Influence of air. He sensible qualities are heat, moisture, cold, & dryneso_. It is also impres= nated with miasma, marsh & human, effluria from plants, &. Heat & cold are relative terms; the optremen of either 3.5

are not known - after 45 years of age, heat be : comes more necessary to the human bodyall animals require heat. In all constitutions a certain degree of heat is necessary to equable excitement. a greater degree induces Indicet debility - a less degree, direct debility -. Mrso: - lation - a stroke of heat on the brain -. Heat, at first, increases appetite - & afterwards induces Dysentery and Cholera - disposes the Thin to darkness is less unpiendly to old than to young people - speites the venereal ap: : petite early and supports it late - In: Hammatory complaints occur after a change from cold to warm. It. M. has observed that uniformly warm summers are the most healthy- West Indians can bear our climate better than we can, for a while-it takes them some time to cool -. Our first parent, were placed in a warm climate. Heat acts powerfully whom the eyes; hence lata: ract is more fuguent in warm countries. and ophthalmia, &c ... Heat impairs the mental faculties-but, herhaps, aids the

have been a facilities of the second allen il some in La real of the second of the second of the second Hall to disting the world of the state The state of the party of the state of the state of while and there of the state of occurred the state of the S the little of the transmission contractions ALTERNATION OF THE PARTY OF THE

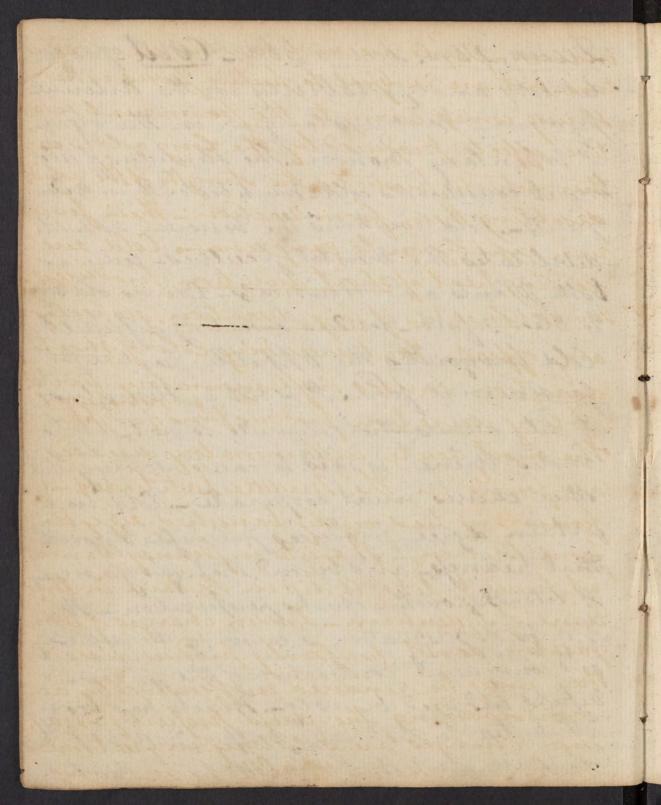
magination. Heat disposes to disease in children especially under 2 years of age -. The rays of the oun have great effect whom the skin in turns ing it brown but the heat of fire does affect it; as in Smiths and Cooks-i.e. in the fame way as the Sun. The provert, that a green Christmas makes a fat Churchyard is founded in truth. Diseases are often gene: rated in one season, and appear in ano: - Ther- as a warm summer makes an un: healthy autumn. No climate is herefrain; : by unhealthy most of the diseases ascribed to heat are owing to errors of our own, in eating, dienking, dreps, &c .- Where the Inhab: : Manto act agreeably to reason, no matter in what climate, health and longevity may be attained .- Heat produces different effects at coiding as it is combined with moisture - a portion of moisture is necessary on hot stores rooms, a refeel of Water should be placedon the store to supply this moisture - Hot, dry reasons dispose more to violent diseases,



Than hot moist ones? The evaporation from the Lea, in England produces the sea-feet. The English are rendered fair-skinned, by the moisture of their atmosphere. Cold-is a negative quality. Its universal action is redative, and debilitating - This is inferred from the slowness of the pulse in cold Countries. Effects of cold in Diseases. &. Cold debilitates directly. Cool breezes do not brace the system by that quality- Heat induces indirect de: bility; and when it is induced, the cool air acts only by abstracting The Juperfluous stimulus, and resto : ring equable excitement; which is Health .- Suppose the heat so great as To carry the spectement 15 degrees into Indirect debility - the abstraction of 15 degrees of heat, or of the quantity which induced the debility, would bring the exertement back to its healthy standard It is in this way that cold acts as a bracer. Heat would trace in the opposite state

the atmosphere Coll. I STATE OF THE STATE the state of the s The same of the same of The supplied there are a state of the supplied to the supplied とうできているというとうないないのでは、 the state of the second second second of the pertinent 18 reason of 19 of the telephone the addition

Decem. 23rd. Lecture 36th .- Cold-produces debility and spectability in the arterial Lystem - produces languor in the organs of voluntary motion. The stimulus of ali ment counteracts cold much better than ardent Mirits -. Cold weakens the benereal appetite. - debilitates the mental faculties- reduces both plants and linimals- Courses old sones to bleed afresh-renders sweating difficult. Cold invigorates the appetite; particularly for animal food. It is not a stimulus; it only allows other stimule to act it pro: : motes Unine - is said to cause scurry-but Ther causes must cooperate. Cold in a certain degree produces paleness- beyond that redness- and beyond that gangrene. It retards growth - checks perspiration -. The Asphage of perspiration is caused by the debility. and consequent contraction of the otreme befrels, induced by cold-. much has been attributed to obstructed perspiration; but the solids are also affected by edd, and debility



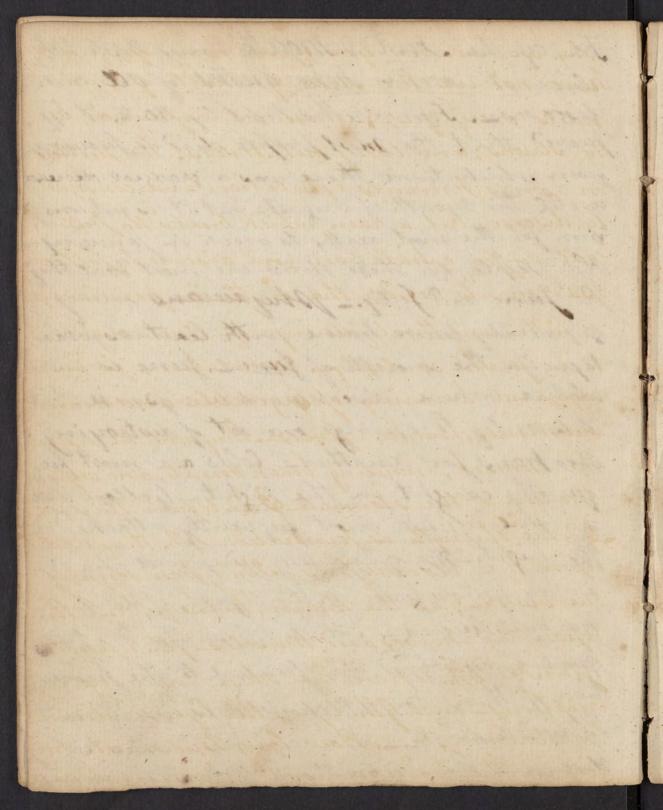
induced - Jesple are most healthy in cold course tries but are subject to putrid fevers when Hing comes-owing to the fromament seda: twe effects produced by the long cold wea: ther, which prostrates the strength of the solid disabling them from reaction - Their fevers run rapidly on to gangrene - Cold suc. ceeding heat of short duration, produces Tevers, choleras, He - of long duration, scarcely any effect. Heat succeeding cold of short - of long duration produces fivers of a Typhus, in The most acute inflammatory diseases, are found in the middle Latitudes - y Jeminacy has nearly banished sizy blood from Britain. It spirts in pennsylvania at present, like it did in Britain in the time of Lydenham . Ludden changes of tem: perature do not herefraily produce disease-They may be rendered inoffensive by ac: those changes are salutary in Great-Phitain. St. R. never knew but Me person whoup

top of but are subject to hide grown freezes come from the the for horas sole to the their services hande the the straight It distilling them have beet the them lessing that of seart suite see for the liver a Course de la constitución ARTIN FRANCE SEE

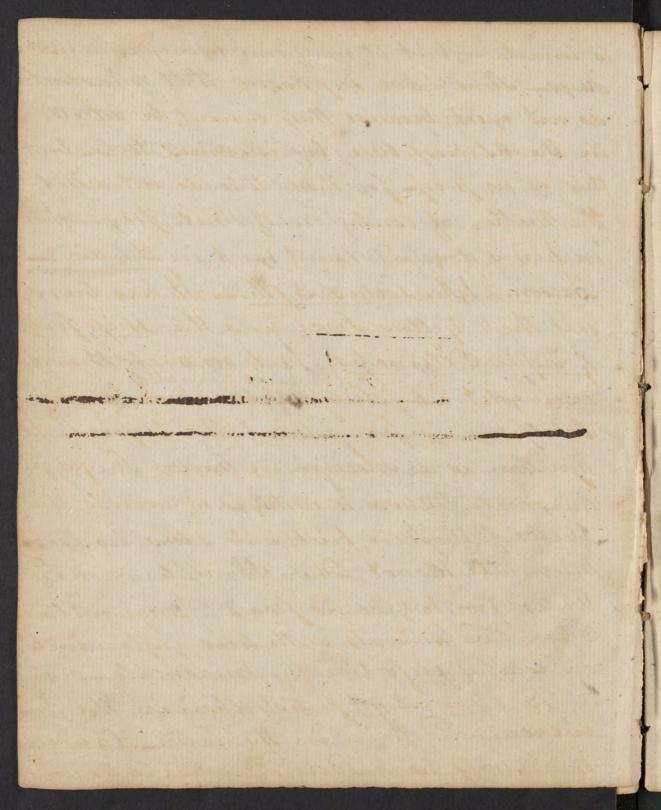
suffered from drefsing too warm. In this case it brought on a spitting of blood . - Lydenham says nearly all his patients were sick from the Want of a suitable dress. The Chinese dress ac: eording to the Weather have several garments, which they put on and off as occasion requires. Cold acts more powerfully in sleep than wa: : king- when the stomach is empty than full-- It acts powerfully on old people they suffer most with cold - drunkards also -. Children bear cold well- Indian Women have been found dead from cold with living children at their backs ... Some people are very sensible of the qualities of the atmosphere. An old man Miladelphia could predict the changes of weather by a free in his stomach. Ducks straighten themselves up and clap their wings before change of Weather - The cold hand of a physician often induces rigors over a patient. a Lady took cold from leaving off a ribbon from her treets whent which the had been accustomed to wear. In chronic diseases we should ad: vise to heef the feet warm-inall nearly?

There I have the free of the way had been a the A prompte on a grown of surpo man ly nell him the the have to g a south de sept for comme and the the the hour the - hours when and the first of the first of the said Edd and wines house fully in since wing without the standard in reached the of the chil during harden the the Well Brief and House have here may not be the the state of the s of the contract of the same of AND AND THE PROPERTY OF THE PARTY OF THE PAR and were an ender an interest of a stranger to an A CONTRACT TO THE PARTY OF THE with the the second second second second Committee of the second second

For by the Feet & mouth, says &. R. O believe we receive Mine tenths of all our diseases. From a record kept by St. X. it ap - peared that the most people died in January from which time there was a gradual decrease until The month of august-but it is not com: mon for the most deaths to occur in January. Ad Jeshle, in these states, are most healthy in June and July ... They siceans may generally leave home with least disadvan: tage in the month of June - June is a solstice, where diseases make a pause-but it is only to change one set of destroying weapons for another. Colds are most fee: quently caught in the hight - Gellow fever in Miladelphia most prequently attacked in the hight - Heavy and long rains will chase away fellow fever without frost, if no warm weather succeed - Marsh miasmata. Heat and moisture combined are ofsential to the produce. tion of these; for either alone is insufficient. These miasmata are a copious source of disease. The importers of bellow Lever ask



why we have not bellow fever every year? Why have not we the same quantity of grains fruits every year? These are influenced by the seasons; and why not Fevers? The pellicle on sonds prevents exhalation and consequent. : by disease - but a rain which breaks the pellicle will suffer exhalation and disease to follow. parements render the earth impervious to filth - and thereby do injury- Streets ought not to be paved so closely. Exhalations from cab. bage, and a variety of begetable and animal substances, induce fevery. They act tot upon the stomach, inducing black bornit, and inflam mation of the stomach Ind. Upon the Liver And. The strength is prostrated: - 4th. they act whom the bloodrefsels- The whon some of the biscera; as the Brain, kidneys, &c. 6 th. Whon the hervegand Muscles- The whon the glands -. 8th. Upon the skin; inducing e: ruptions - and 9th. Upon the Eyes; inducing ophthalmia, te. -. How long miasmate may lay in the body without inducing disease

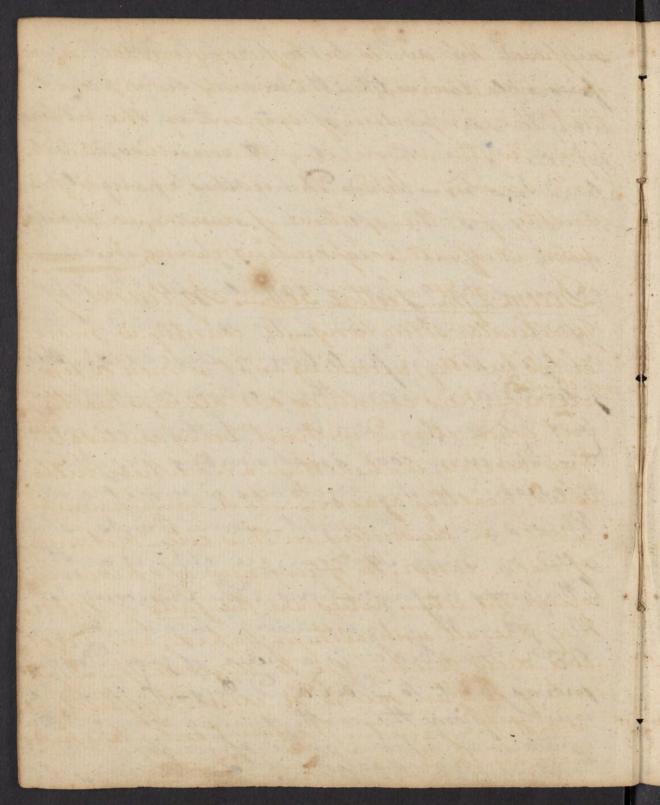


is uncertain; but it may much longer than 30 days -. Some have supposed that miasmate do not exist, because they cannot be detected in the atmosphere by chemical tests but this is no proof for those tests do not detect the matter of contagion of small prop- which we know dogand must spirt in the air? Decem. 24th. Lecture 37th. - It has been said that yellow Sever was the ship-fever of tropical climatest but no such thing can spirt it still tropical climates ? : beddie in far without the togices the aprention is a solecism in medical language. Miagmata adhere to clother, and even to the Walls of wooden, brick, and stone houses. miasmata do not adhere to white washed Walls- nor to ground floors_. Isregnant lbo: men, and patients with local inflammati: on escape injection by miasmata-owing to the stimulus of distention in the form er case, and pain in the latter. Canine madness is produced in rabid animals

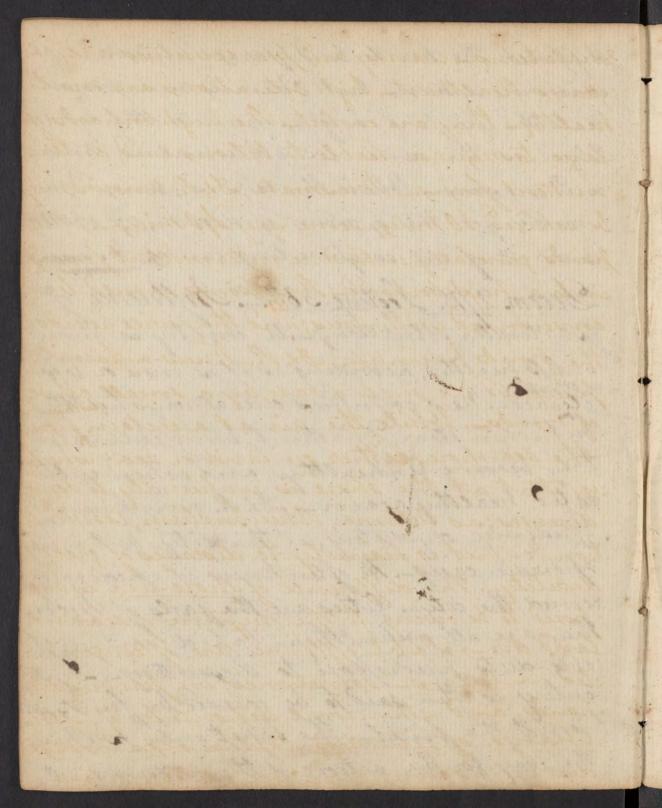
by the retention of morbid geretions? -. Typhus mition, jail, hospital, low newous, and ship fevers, are all synonimous. In these fevers The pulse is neither full nor tenge - bleeding is seldom necessary. Sometimes delicium comes on the senses are diseased by mphe tie glands swell; as in the groin, de. - there have been mistaken for benereal swellings - they are removable by the bank without mercury. Doctor Mitchill supposes ani: mal and vegetable miamata to be the same-but St. R. cannot afsent to this. Fevers from animal miasmata appear chiefly in cold weather in sersons of weak constitutions- the Julse is seldom above typhoid bile seldom appears - the generare not communicable above a few yards dis: :tance. - Fevers from begetable miasmata are just the reverse of all these . - yellow fever was never known beyond the sphere of marsh and other effluria - hor jail fever beyond that of human effluvium. - Dr. R. has

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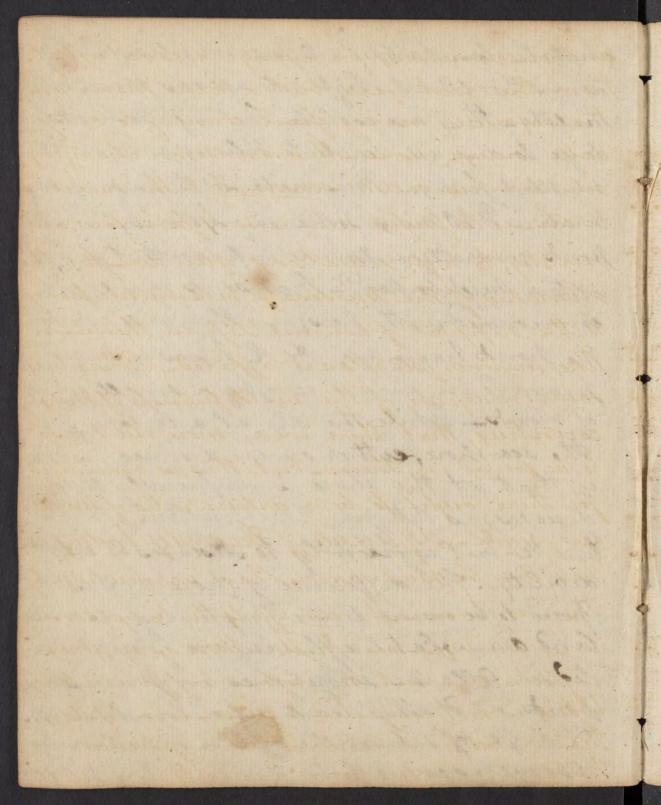
said that cold and heat are not necessarily un. - favorable to health - the same, continues he, may be said of miasmata - they might be appelled from the list of Human evils! Hot. : land has been rendered healthy by cleanlings, The United States will perhaps continue many years subject to malignant Jevers, in conse: quence of the neglect of cleanlings of the defect of proper cultivation of the soil- and of the beleif in the importation of diseases! - Phloegisticated air proves the speiting cause of dis. : case frequently- as of Epilepsy, dizzy head ache, De. Burning coal in chambers has often occasioned death. begetables give out a de: : leterious gas in the night. Some winds, as that called by Bruce, Simoom, are charged with lethererous impregnations. The Simoom is charged with vitrislie acid; or sulphureous gas? hear the Sciota is a piece of groundwhich proves fatal to Deer and Dogg. rapors are emitted from the earth during some earth. contaminate the air. Dr. R. once sup:



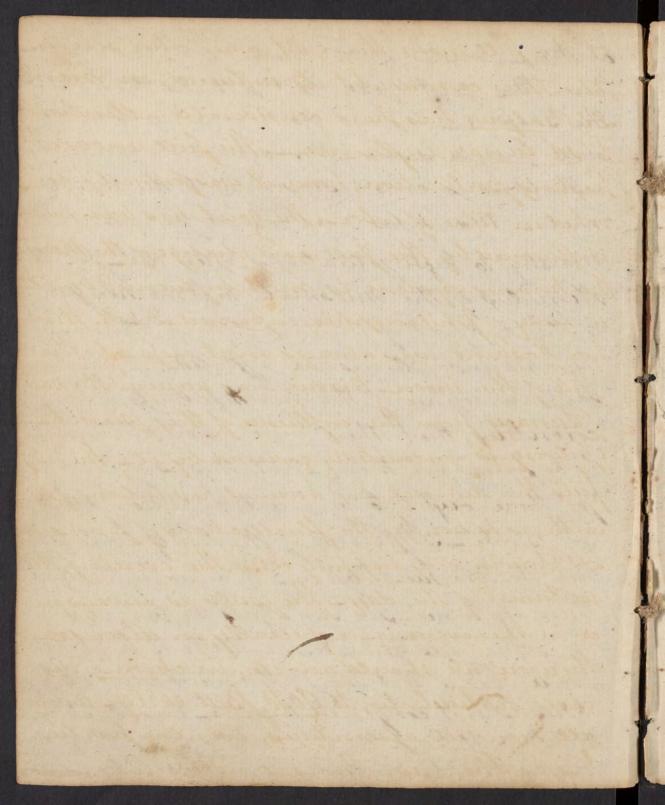
supposed the air to be hyperoxygenated during epidemie diseases; but Chemists have proved that the proportion of opygene in the atmos. There is the same in all countries, climates, and seasony. When the air is changed fa: : vorably for the epistence of disease, we should divest it of all co-operating causes. Le. Decem. 27th. Lecture 38th ... Influence of particular situations. Il country is more or less healthy, according as it is more or less or cultivated. New countries are always healthy but when cleared without being cultivated, They become unhealthy and when cultivated, healthy again. It. R. never knew in . Epidemic dysentery in this city-but many sporadie caseg. He often knew it epidemie round the city. Cities are the jails of men. They are all unhealthy - bapid, and veget. able diets predispose to dygentery. Dys: : entery is often said to be caused by fruits-it is not the fruit. The fruit only prepares the way for the action of the autumnals



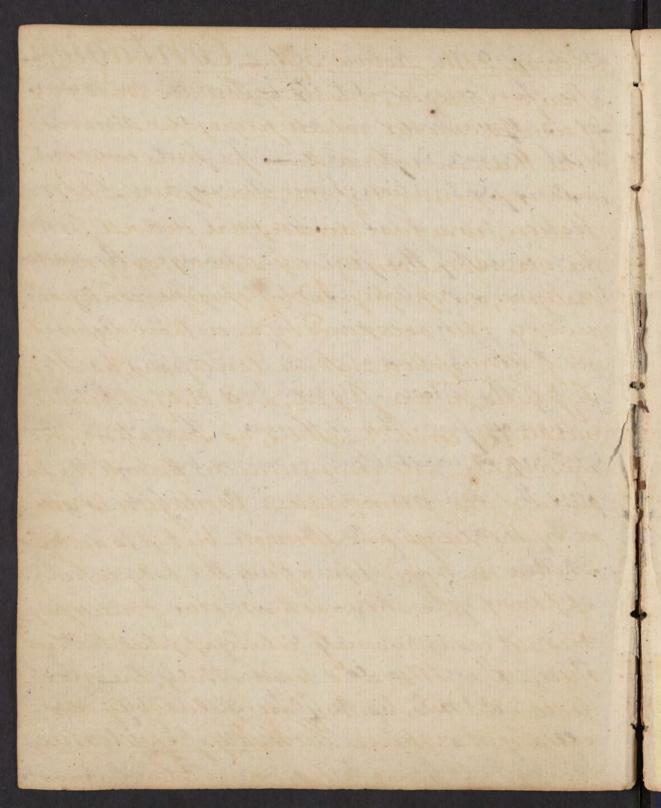
Shalations. Landy and poor countries are al: : ways healthiest - high situations are most healthy - they are coolest. The neighborhoods? large towns are liable to bilious and inter: mittent Jeverg. - miasmata, St. R. knows, may be carried 10 mileg-some say 40 mileg. Mile. - ponds generally introduce intermittent fevers into a heighborhood- Those ponds should be environmed with trees; and they will render the fronts harmless. St. R. knew a family preserved in such a case, by a small copse of woods. While the air at a certain from The sea-shore, either on land or sea, is health :4, that at the shore is unfriendly to some diseases; as arthma, Mumatism, Consump tion, be-but is friendly to diseases of great debility. The difference of shore-air is sup. : posed to be owing to the mixture of sea and land air - Fatal efflurier are often genera ted in Cellars - sometimes in privies, duch -ponds, and other local repositories of felth. Change of situation often occasions disease; as going from one country to a:



another . Sometimes the change does not affect Them the first year, but attacks them on the second .. moving from country to city will include disease. This disease on changing situation is called seasoning to the how eli: : mate. Old seple who remove from low, and marshy, to high situations, often die-for the Himulus of the masmata became necessary to the support of humal Life in them. In like manner Islants are affected. It has been said, in defence of the healthfulness of marshy countries, that there were more old men to be found in them-but this is against it, for there ought to be a certain ratio of middle aged seople - Influence of Heavenly bodies on health. The nicest observers have acknowledged Their influence - The sun affects the body-some: times the eyes-head be. The Moon is next in influence. But the influence of planetary bodies is not confined to man- Even bysters, The lowest link in the chain of animated hature, are affected by them- they are fatter



at the full moon than at any other season Who then can doubt its influence on man? Dr. Balfour has fraid considerable attention to sol-lunar influence. The full moon hasterns parturition; hence it was formerly in : voked in time of labor -. The gout has been much influenced by the Jule and change of the moon-The hervous system is most influenced by ita Lady of Philadelphia informed Dr. R. that her Husband was always most eross at the Jule of the moon! - manie has acquired the name of Lunacy from the influence of this planet -. Epilepsy is undoubtedly governed by it .. The body Jeels the diurnal and annual revolutions four earth; as is seen by the fluctuations of fevers, &. It. Darwin very happily calls the evening, the autumn of the days. The Joulse is alwaysquick er in the evening- especially in disease-Therefore we should advise, in chronic dis-: eases particularly, to go to Bed early- avoid all crouded afremblies, evening parties, Ge, as Theatres, Balls, and the like.



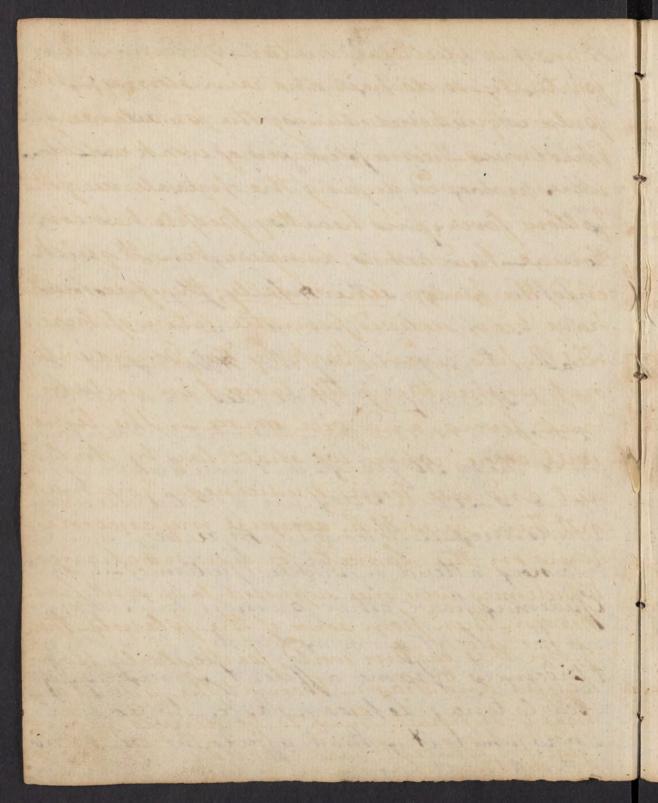
Decem. 28th. Lecture 39th. Contagion. Specific Contagion, consists of certain particles of secreted matter which propagate diseases like that in which those particles were secence and independent of the atmosphere. In-Jection, is when diseases are derived from the air_. Some contagious diseases, as Cynauche maligna, are propagated by specific contagion; and are also occasioned by a certain disposition on of atmosphere - Some Contagions, as Heh, Lyphilis, De are Jixed, and only commu: nicable by contact. There, as Scarlatina, de. are volatile, and communicate through the me: dium of the atmosphere. Contagion is received ed by the Lungs and Stomach-but it is doubtful whether contagion can affect the body when applied to the skin- as the matter of malepop does not communicate when applied to the thin .- The Steh, and some they, are no di eases of the skin. The History of Epidemics is very interesting to up; as our Cities are much

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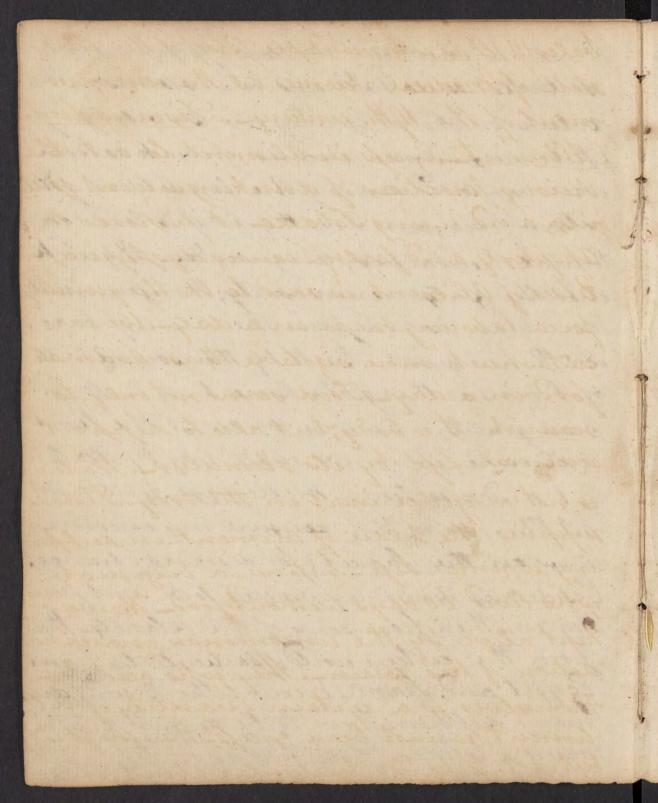
Afflicted with them - I mall-pop and meagles are much influenced by the sensible qualities of the atmosphere- Scarlatina anginosa is still more influenced by them. There is a kind of Monarchy among diseases- for while one Teigns epidemic the others are compelled to do homage to it by wearing some part of its Livery. Dr. R. Thinks small pop and meazles cannot affect the body at the same time; but that they succeed each other- &. Day attention to this law of Epidemics, Jen: Hemen, - that they compile all other diseases to wear their livery; and that they sometimes even banish them from their dominions -This fact was first mentioned by Sydenham. Epidemies of feeble nature will banish diseases of much greater vidence. Tome people nevertake contagious diseases. Epidemics often affect persons one country only - of one color only - of one age only- of one seponly- of a certain rank only- They affect certain communities only - one family only persons of one profession only

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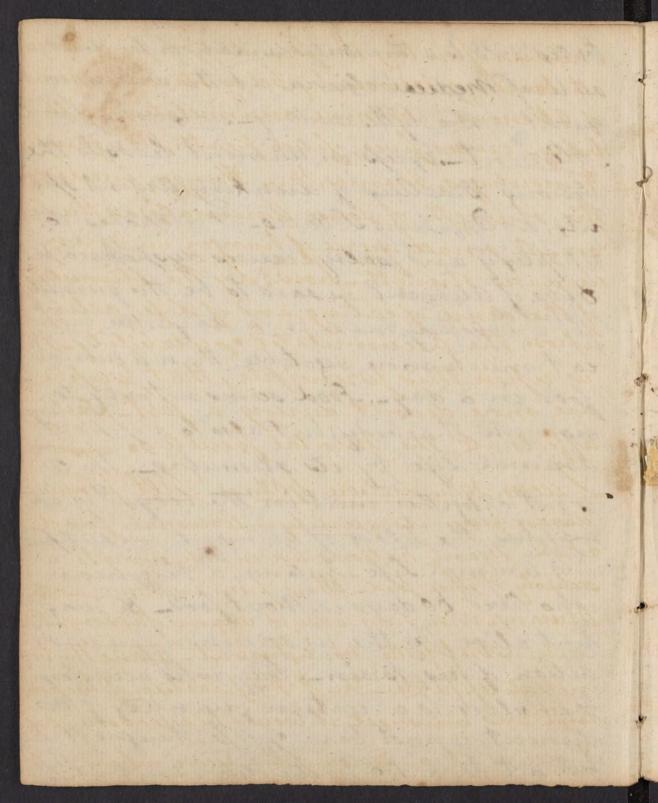
only- they often affect none but the human species - sometimes both human species & quadrupeds - sometimes only quadrupedssometimes they affect fishes - Insects - Ve. Musquitoes never fail to accompany bilious spidemil of the country is always retreat at such times hew Insects sometimes make their appearance; as the Hepian fly, & potato--fly, de. - The fly which destroys own wheat was not imported by the Afriang-it isof domestic origin! - Those flies have not been discovered in Europe - they have been know, here there 30 years - but were not very hu narous. Even Trees are affected during Epidemies. Meteorg, tarthquakes, and volcanoes attend of precede Epidemics-Great Chidemies have other premonitory signs; as the flight of Birdy-death of cats, dogs, de, Epidemics assume different forms; as Dague - Scarlatina, Leprosy, - &. Ve ... We do not know what it is that affects the constitution of the atmosphere so as to produce Epidemics



It may be Electrical matter- Epidemies run partially- so do hail and rain storms; - The pulse is quickened during the prevalence of Epidemicy- Some diseases of weak action were removed during the prevalence of the Gellow fever; and healthy people had con: timual headaches, languor, &c .- It quick: : ened the foulge universally; therefore must have been derived from the atmosphere. Dr. A. has given Bark by the Bound with: out unsheathing the lancet in autum: nal fevers, and vice versa -. The time will come, when we shall lay by the lan: et and use tonic medicines -. you must not Then, says D. R. conque my encomi; :ums on the Lancet; for diseases change. Opidemics were once supposed to be sent from Heaven - Then from some of the planety- then from the eastern world; particularly from Egypt and Siam_ Even at the present day, many suppose them to be derived from Joneign places! and carried in ships &



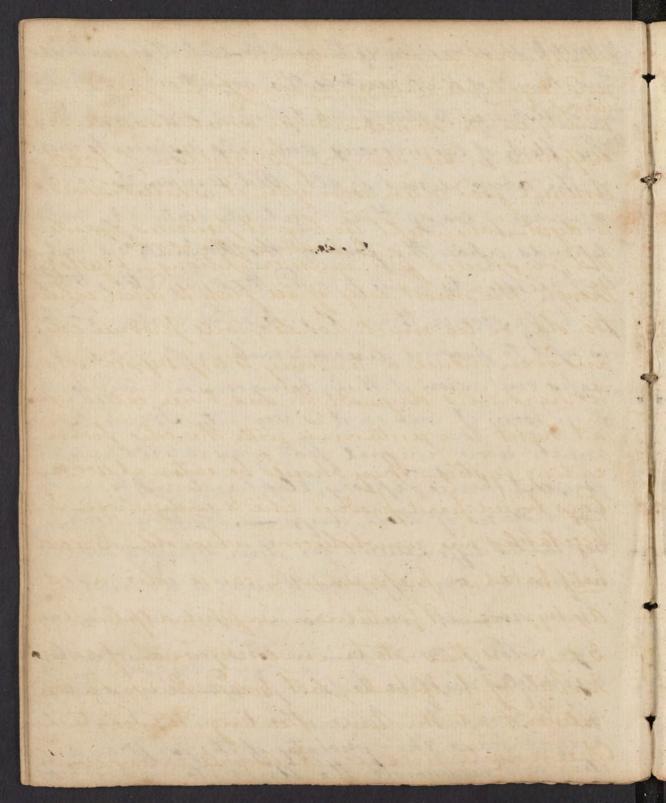
bales!!! It is a lamentable proof of the low state of medical Science at the commence. ment of the 19th. century. Diseases from Aliment Exceps in aliment leads to the vicious practices of drinking ardent spi: rits, and using Tobacco- it disposes to apoplepy and salsy-causes dyspepsia, be. 8 lbs. of aliment is said to be the quantity for a laboring man in a day-. We can eat much more vegetable than animal food in a day. Food seems not only to nourish the body; but also to support animal Life by its stimulus. Water is not altogether inert in the body. Disease supplies the place of aliment in support ing animal Life - Instance, a virginian. who lived bo days without food the was hept alive by the uncommon encreased action of his Brain. They who accustom themselves to a certain quantity of a: : liment, cannot bear excep- therefore it is best not to be too particular about it a



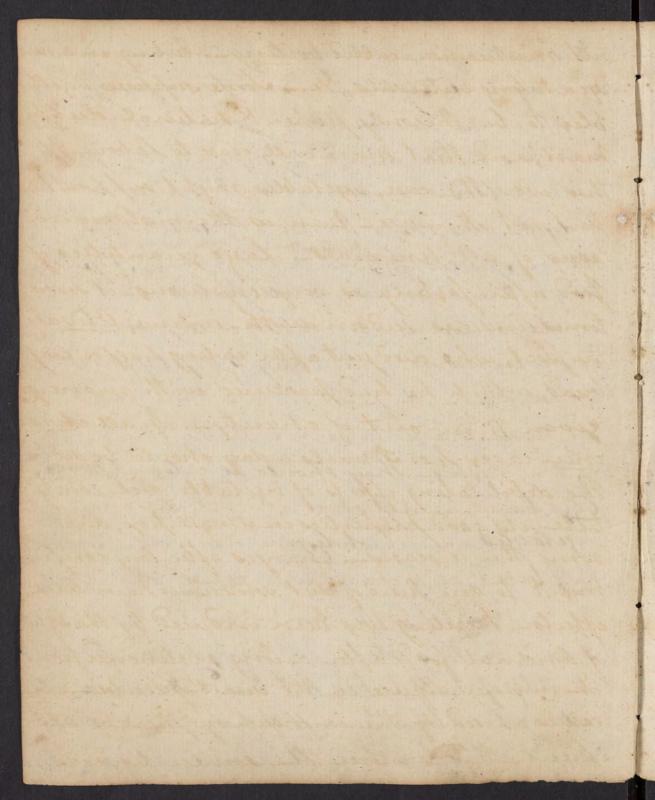
Children often lay the foundation for disease at boarding schools, by being stawed in point of aliment. Famine accumulates specita: : bility- causes fever, fetid breath, de afterwards Hemouhages, Mania, &. - Hunger increases The strength of some animals; as the Li; ion. a small degree of hunger in men mereases strength - how? By the stimulus of the desire of eating, and of Life, acting whon the accumulated excitability- IX is whon this principle, that people are more devout during a fast. Fasting affects all the mental faculties. Decem. 29th. Lecture 40th. - Diet produces disease from its quality- unimal food-I'Mh - many hations live on Fish, owing to a scarcity of other food - Others from inddence; as the Upricang Dome from abound religious opiniong- Fish contains but little hourishment-lessens the be: : neval appetite - Ge of the practice of keeping Lent was universal it would be a good one, as it occurs at a season of the year when tel

THE RESERVENCE OF THE PROPERTY OF THE PARTY The think the transfer of the second the sec The contract of the second of FORTH OF STATE OF THE STATE OF and the second s the same of the sa when the water of the state of the the more whom they are the the same and the state of t I the man was to so me and a second I come to the the second of the second of the second William To Mark the State of th survey of the plant while when the property continued at the the secretary of an action of the ment of files - hand his him had and are to mad acres pak it wants in a jugo one

stimulus is necessary to health -. at other reasons this kind of diet renders, the countenance pale and disposes to malignant fevers, Leprosy, &c .-The flesh of larnivorous animals disposes to most of the above diseases; also Old animals, in com : requence of losing their vegetable nature I- Much depends whom the food of the animals we eat. Experiments have proved that mutton & buf putrefy sooner than lamb and veal_ fork is aft to produce desease - instance the jews - fer: haps one reason of their being commanded to ab: Tain from it was on this account. Formerly, much more animal food was eaten than at present; hence Leprosy, Elephantiasis, de. were the diseases of those days . begetable diet_ begetables differ much in their degrees of hou = : whenent - some approach near to animal food. Their howishment is in proportion to the ugar they contain. acids conode the teeth, X. Vegetables dispose to palsy, dysentry, dyshefmin flatulency, &. - lessen the beneval appetite. they subdue the forocity of the passions ... Se.



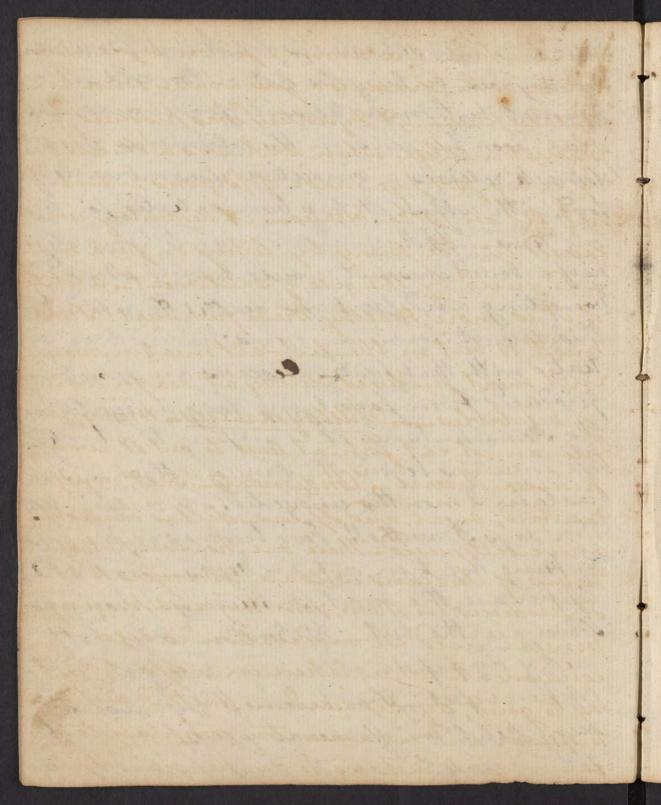
Milh, which is an aliment between animal and begetable hature, in some people produces acidity in the stomach-Butter sometimes causes eruptions on the skin, de - preparation of food. animal food eaten soon after it is killed is harder to digest. When kept too long it produces disentery. Old, or spoiled fish, cause cruptions. ysters, though the most easy of all flesh to digest, when too dd, or too much roasted, will produce colic; and even induce a tendency to asphypia when too hard and dry. Dr. N. was twice called up at hight to a gentleman with the colic from eating cysters -. They should be eaten at hoose, Eggs boiled hard produce colic & indigertion - &. begetables are unwholesome when old. Bread half-baked, or prepared will cause colie and apphypia. A Gentleman in Shiladelphia, lay 3 days in this state in consiguence of eating heartily of half-baked, hot bread. He was a con: valexent at the time of eating it .- Toasted Cheese will produce it as will eating with



out martication, called bolting. Eating in a hur ing, at long intervals, de. - Some suppose vegeta: - bleg to be the only proper & natural diet for man; and that man will cease to Labor - of This were the ease, vegetables might support him but not otherwise - man is the mostomnivo: rous of all animals: Large quantities of Jood after fasting is very injurious_it some: times induces sudden death-instance, Olivay the poet, who died just after eating half a loof bread, which he had procured with money given him out of charity. In all chro: znic cases 4 or 5 meals a day should be ordered The debilitating effects of begetable diet consti: tute its good properties in small pop, and some other diseases. Changes after long confine ment to one kind of diet sometimes have bad effects -. Painting has been induced by the sight of animal food after a long abstinence from it-instance, Bruce in the desart of hubier. Dis. care is caused by the improper mixture of ali: ment- This is a fruitful source of disease.

the transmitted in the case or their will The second of the second of the second The same of the same was a same of the same of the The state of the s the state of the state of the state of the state of for after fasting a very inference of from in the our get after a long long a long war server to feel franciscour for the market The state of the s the state of the s and actual to the to destinate by the sent was and the second of the second A STATE OF THE PARTY OF THE PAR

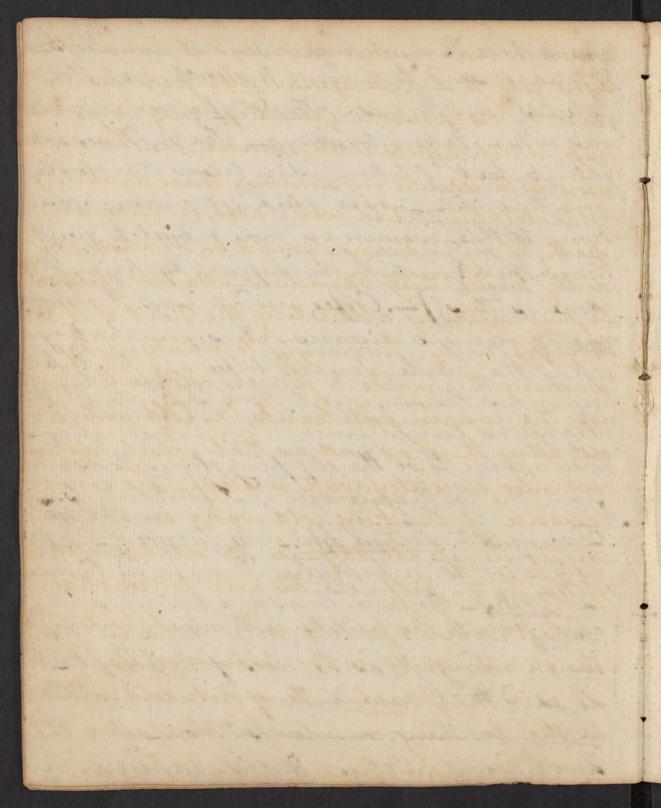
Order a single dish always for chronic patients. Food injures by being too hot or too cold_. no animal but man takes its food warm _. mich soon hardens in the stomach. The Homach retains a vindictive remembrance of food, with which it has been satisted, for a long time. If R. remembers when to have eaten half a boiled chesnut, would have produced borniting and Jerhaps death! He retained This disgust for many years; having been sa teated with that fuit Diseases are sometimes produced from food lying long undigested in the stomach-hence it is necessary to go back in our inquiries beyond the time of attack . Sork has lain 2 months undigested? - a certain au: Thor says 5 months !! - Food becomes injurious by being kept in certain befels. Lead and Copper are the most pernicions. Iron and Silver are the best. Dr. Bond and Wife both died of dyspepsie in consequence of using a Copper vefsel. Food becomes injunious by being kept in unclean vefrels. Animal food is sometimes injunous from the alix



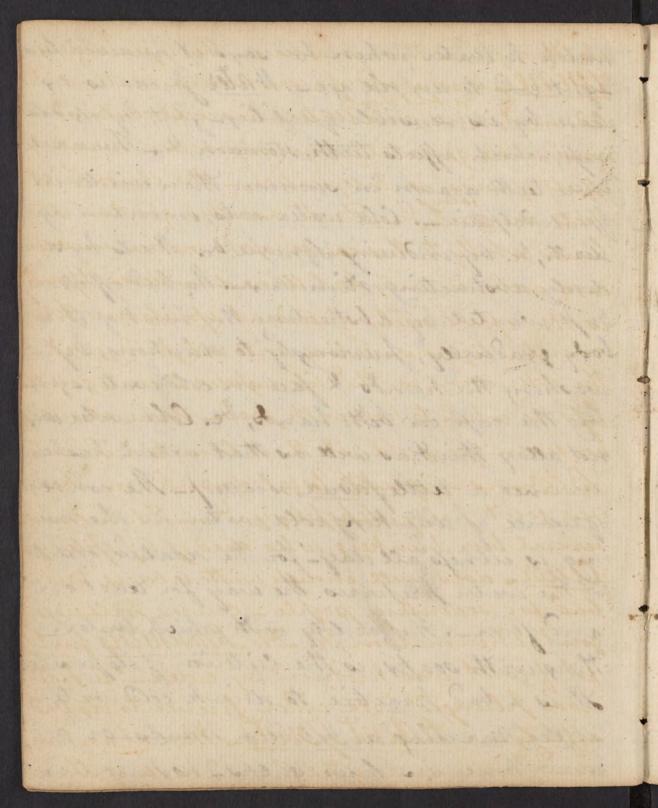
ment which the animal fed on before it was hilled - as the pheasants a few winters since in Miladelphia. A Dysentery was produced at princeton college when Dr. R. was a Student there, by eating sot pipe made of sigeons which had fed on soke-berries -. I dysentery was caused in the army by living on fresh meatand curied by the use of salt meat. a little of it is more Healthy than fushmeat? Fresh meat is best in Winter; salt meatin summer. Valt meat produces seury at sea for want of vegetables I diosyncracies - many seo: - ple cannot eat fish-at least to eat it, would produce disease - Condiments_ Salt, vinegar, mustard, sugar, and spices Salt is almost universally used. There are, however, Whole tribes of Indians who are strangers to it -. It produces in them, vomiting and purgingbingar used in moderation is a good condiment- when taken in & cefs it dights: : ses to gout, dyspepsia, &. . Mustand disposes to sparm and inflammatory complaints fu: gar in gocefy disposes to dyspepsia - Spices

with the second MANAGER CONTRACTOR AND A SECOND CONTRACTOR OF THE PARTY O THE RESERVE OF THE PARTY OF THE THE REAL PROPERTY OF THE PARTY and the state of t

also dispose to dyspepsia when used in seefs-They are said to produce a swelling of the testicles in Upicans - Tea & Coffee are injuri: ous when taken too strong. Tea produces wake : Julnes - but if taken when below the Heeping point, it will induce sleep - it disposes to gout! Twing to this, women are more subject to gout Than men! instance, Dyspefine, Hysteria, Se. [Hour is this?] -. Coffee used to greep produces many newono diseases - it is sphilarating-Upon the whole, Tea and loffee are far les injurious than ardent spirits instance, the charge in Europe since their introduction. They appear to be the stepping-stones to ascend from the loathsome vice of Drunkenness. Decem. 30th. Lecture 4th. Influence of Diet and Drinks in producing Disease, continued. SUNKS - However long some animals may subsist without drink, man stands in as much need of it, as he does of aliment It is said that hime-tenths of mankind drink Water for their common potation. It is the Beverage of hature. Hallet ascribes too much



much to Water when he says it preserved his eight good to an old age -. Water produces dis = case by its sensible qualities - first, by its cold: ines, which affects teeth, stomach, &. There are more teeth drawn in summer than winter in Ishiladelphia -. Cold water acts, in induring death, &. by inducing Synespe, De. It acts by sud: denly abstracting stimulus. The bad effects my be prevented by abstracting the heat of the body gradually, previously to drinking, by washing the hands & face in coldwater-grown ing the cup in both hands, de. Cold water does not allay thirst as well as that which has been warmed a little faired, so called for The conse: : quence of drinking cold water in the morn ing, is illness all day for the sedative effects of the water prepares the way for reaction and fever -. The facility with which Water la: there with soaps, is the Criterion of its purity. It is a bad practice to drink cold water in the morning, or between meals or at any time in large gulps- no person in



health requires these practices - They injure digestion. WMC_ is composed of a saccharine matter cal. eld must, acid, and Water hence it contains a considerable quantity of nomishment. The acute effects of wine is Intopication - the chronic of - Jeets, are gout de. Dr. R. ascribes gout in the limbs wholly to this cause; as he never saw one case occur in any but Wine drinkers -. Yout is the effect solely of ardent spirits and fer: : mented liquors- Eating will not produce it-The older wine is, the less disposed to cause gout_ less so when taken with food. Wine should be seven years old; it then loses its acid_. Beer is difficult to get dunk on- It can: Hes gout, palsy, apoplepy, Je . - Dr. R. knew several beer drinkers who died of apoplery. aller does well enough with laborers but is bad for sedentary people - causes palenes, gout, Theumatim, Gr. Di. Frankling first fit of gout was produced by eider -. a hot effects. Allent Spirits - Had I an hun: due tongues, says Dr. R. and each of them

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endowed with the Eloquence of Demosthenes I should still be too feeble to describe the evil effects of this tegion of devilish spirits on man! ho man who is habitually stupid with spirituous liquors ought to be admitted in a court of justice - they de: : stroy veracity & all the moral faculties. - Cold, hunger, hard labor, fatigue, debt, quilt, & . Se. lead people to drink ardent spirits - but eating, drinking molapes & Water, coffee, tea, de. is much better _. It is the province of Shysicians, peculiarly, to difruade from the use of ardent fruits. Diseases from Drefs - Who would have that that the covering given to hide the shame of man, in consequence of the los of his in: nocence, should ever have become the cause of disease! Info acts three ways in causing disease - It. by quantity; and by form, or Fashion; and 3rd by quality - pride is said never to be too hot nor too cold - 1/4 of the Jevery in this City are brought on by wearing oummer clothes

I wrough you in the public to the The second secon who were the server to the wife of the server of the server of A THE COURSE WINDOWS THE PROPERTY OF THE PARTY OF THE PAR THE RESERVE AND SERVE WAS A SECOND OF THE PARTY OF THE PA and the second second and the second second of the the second of the second of the second of desired to the said

clothes too late in the autumn; putting them on too early in the spring; and by sleeping with too few elother. With respect to the quantity of clothing, some allowance must be made for habit. Fashion causes many diseases - bertigo has been occasioned by tight shoes; and fainting by tight stays - Tight thirt-collars often cause diseases of the brain- de When shall we cease to be the slaves of European Jastions? The pre: : sent state of things seems to justify the sen: timent of Swift, that man is an animal capable of leasoning, but not a reasoning animal! Instance, poulticed heckeloths in Jummer, and naked elbows in Winter, de. Se. -law silk transmits heat slower than wool, - Whole regiments have been saved by wearing flannel shirts; while those with linen ones were dying rapidly - as in Canada during the late war ... Cotton and flannel are the best for common use - they retain heat, even when wet and do not produce vermin like linen - . St. M. thinks it would be best to wear flannel in all seasong - he denies that it

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effeminates_. Fashion has caused diseases; and dis: eases in their turn, have introduced fashions Hair-powder was first used to hide the disease called plica polonica - poulticed heckcloths to conceal scrophula, or king's evil - Boots to veil crooked less from the public eye, de. Jousons - poison is a relative term. There is no poison which has not been taken in eer: tain quantities by certain animals without injury- poisons are divided into animal, begetable, mineral, and Herial -. animal poor sons, are such as that of Serpents, rabid ani: :mals, te .- begetable poisons, are such as hem -: lock, strammonium, &c_ mineral poisons, such as hisenie, Lead, de. - herial poisons, such as carbonic acid gas, azote, and so on. How do they act: different poisons act in different ways. We are told that they art by distroying the Vital principle; but are not told what that principle is .. Jome poisons act &: Jatal. Many seem to act golinewilly more

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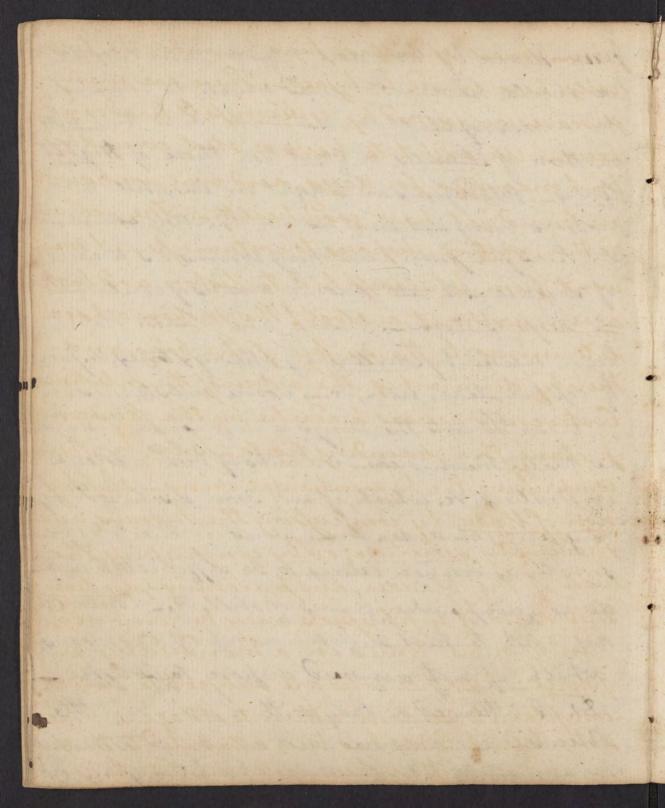
the Brain; as itrammonum, pinkroot, be. Some act primarily on the newes, - on the muscular fibres, - thin, - stomach & bowels, - & some on all - destroying the quitability by species stimulus. Tome act specifically on the lungs, as carbonie acid gas - causing them to sink in Water _. Some on the blood _. may not death also be induced by the poison so uniting with parts as to prevent the communication of the vital principle, like musical motion is prevented by way on the string of a Violin? The poison of Verpento acts speci-: fically on the coagulable lymph of the blood. From all these we may collect a: : bundant proof of the opertince of specific Tumuli_. When we look to the Sove: : Wigh / Stople for the origin of power, Errors in the science of Government will cease- and in like manner, when we look to the progemate cause, & mode of action of diseases, for the regulation of practice, we shall terminate the gestince of Errors in Medicine !?

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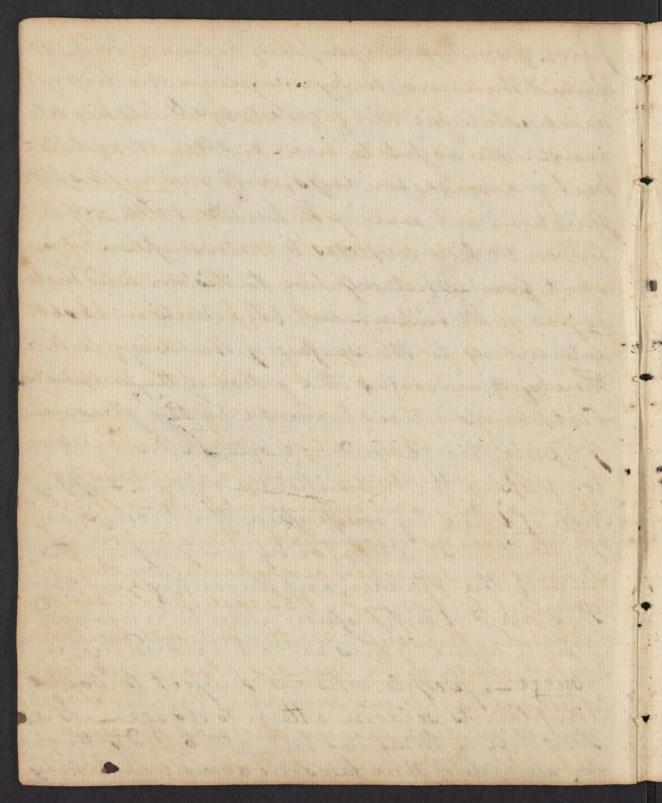
Decem. 31st. Lecture 4 2nd ... Worms - have been found in various parts of the body; as the Liver, Uninary bladder - maxillary and frontal sinuses, & brain - but chiefly in the alimentary canal - There are 3 kinds of woring which infest this canal, viz. The Lumbices, or roundworms; - Tenia, or take worm - ascarides, or movers; these last are found chiefly in the lectum. The roundworm is said to be of the same species as the round earth Worm It is certain that what distroys the one will the Ther. The tape-worm is the most rare, as well as the most formidable. It has many joints, and is often of great length. How are they formed in the bowels? They are conveyed there by aliment, and mother's milk. From their being so universal, Dr. R. concludes, that they spirt necessarily in the body- they are kindly sent to prevent diseases by destroying the superfluous matter taken in by Children for children are all fluttong. Dr. R. thinks There are diseases from the want of loving particularly the round worms. They only

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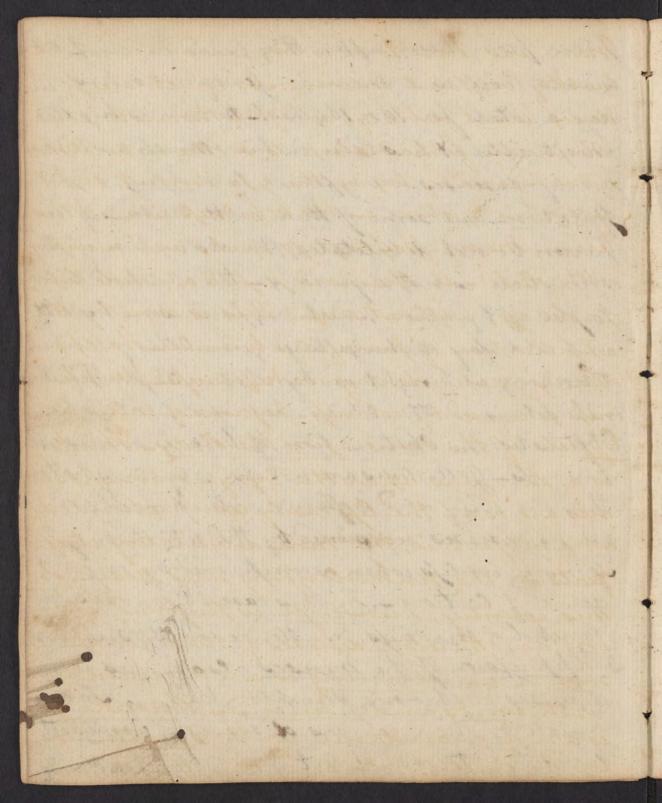
cause disease by too greeat humber, and error loci. We should have our eye as much to wormsin the diseases of Children, as we have to the menses in those of Temales, or gout in those of High--livers_. When fevers are brought on in children, worms may act only as an speiting cause -Dr. M. is far from overlooking thorms as a cause of disease on all chronic diseases of children he suspects them. Disease and Death have been caused by swallowing cherry stones, & pieces of copper, lead, iron, &c ... Some substances are introduced into the lungs and produce disease; as water melon-seeds- crumbs of bread, - meal in millers, te. which, if not soon discharged, by coughing, cause death - pins in the flesh sometimes occasion releas to be difficult to heal. as do gun-powder, grains of shot, de. - Children are aft to put substances up their noses, which, if not removed, dispose to polypi -. Dr. R. attended a Lady with a pain in the Merus - she recovered - not by any medicine hime, said the Doctor, but by discharging an



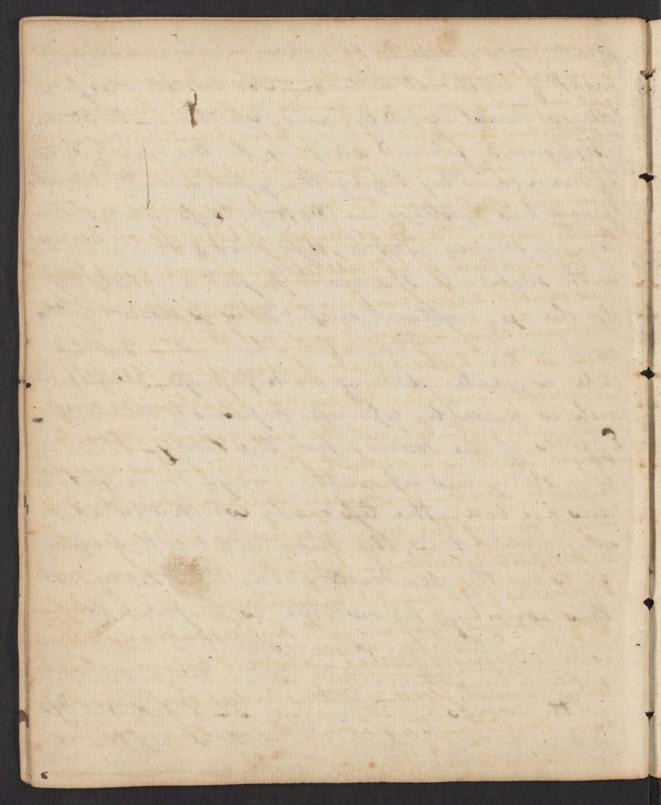
pin . Imale splinters, pins, & under the finger hails, have caused lock jase. There are many diseases occasioned by costiveness, & hardened Jeces. We ought to have a stool every daybut many go for days, and even weeks with cont; and yet have good health. The sea, or rather, sailing disposes to costiveness. I man went from philadelphia to Lisbon and back again without a stool! The motion at sea determines to the surface of the body, and Thereby diminished the action of the Intestines Costiveness causes headache, by the faces com: preping the descending anta-piles, by their compressing the hemorrhoidal veing- supprefision of Mine by compressing the kidneys, and preventing secretion; or by compressing the nech of the bladder, and preventing speretion: This kind of suppression may be removed, ninety nine times in a hundred, by a purge - people who are subject to bowel - complaints seldom attain to old age - The for Life of Birds has been attributed to the spece dy discharge of their faces no absorption taking



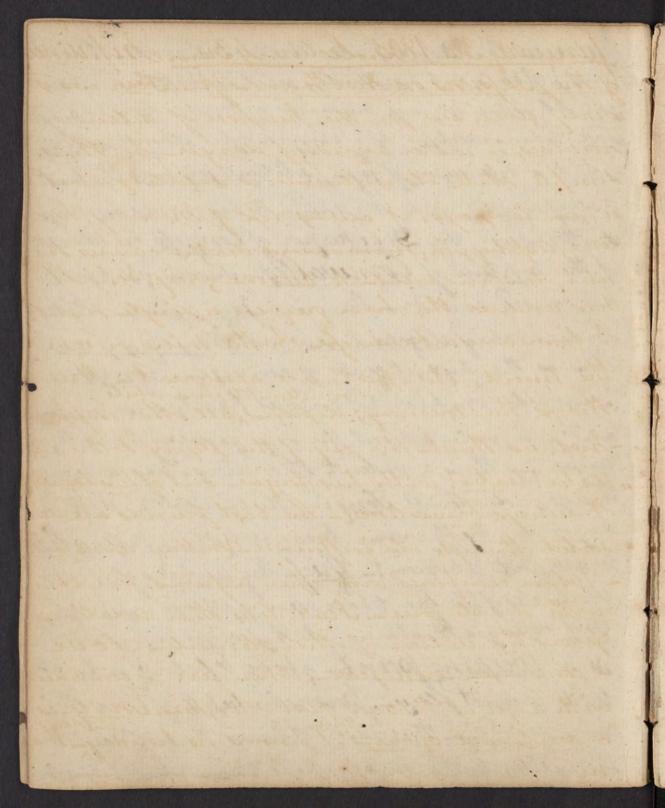
place from them, after they become acrid. It is said there is a man in Jersey who has not had a stool for 10 or 15 years! - He vornits his ali: ment after it has lain in his stomach awhile. many diseases are referred to suppressed per: Thiration- and some of them with truth - If a person be not debilitated, the obstruction of her: spiration is not injurious - the obstructed matter papes off by wrine; instance, persons in health in a cold day dicharge large grantities of thine. neezing is brought on by obstructed perspiration - truptions on the skin occur from chronic distruction _. Obstruction of vile produces cos: twents - gall-stones are not of a calculous hature - they are oily and inflammable, 4 There are no diseases occasioned by the retention of Temen; unless when accompanied by urgent desire of Cortion - In this case it causes me: : lancholy, madness, & attended with priapism. Tuppression of the menses also causes some diseases; as Chlorosis, Temoptoi, Vi. Vi. Joo much motion causes diseases of indirect debility- Too much rest those of direct a bility.



man was made to be active; and cannot be healthy without action. Too much sleep in: duces direct debility, and plethora - a german Thy sician fancied sleep to be the natural state of man; and by trying the speriment, slept away his epistence -. Wakefulness is a relative term- many people pass weeks and months with sleep! - a spaniard passed a whole life, to dd age, without sleep! This is done by the application of powerful stimuli- the apple: the is greater during wakefulness. Wakeful. : nep is caused by coldness- papions of mind, de. Effects of the mind whon the Body- Thinking is a stimulus whom the body-midnight stu : dies are bad - the less easily comprehended any subject is, the more debilitating its of: feets on the Understanding and Body. In this country, knowledge is preferred to learn ing; and therefore diseases of this kind are mourare. Learning is an acquaintance with words and opinions - Knowledge is an acquaintance with Truth - The less the understanding is comployed, the stronger the



passions -. The Dassions act like heat and cold-stimula: ting passions act positively- redative passions act ne gatively- This doctrine originated with Dr. Brown. Love, when successful, is a very powerful stimulus- grief is but a less degree of joy- solitical joy has the most powerful effect whom the mind it has caused instant death; as in the Bookkeeper of Congress on hearing of the capture of Cornevallis. Sudden great fortune has caused suicide. There is a joy of fear - The Indian chief, Logan, knew not the joy of fear-This is the highest grade of courage. anger is wisely implanted in our treasty-"Be angry "and sin not-let not the sun go down whom think 'anger'. It is a vident stimulup- has caused endden death- a Tory in Miladelphia, died of anger during the war because he had to pay tage to support rebellion! - grief The auricles and even bentucles of the heart have been ruptured by grifgrief charges Mysteria into Hypochondriasis- There is a Weeping point- above & below which, tears cannot flow. persons in deep grief often sleep very soundly. The reason of this is, the grief reduces the system to the sleeping point

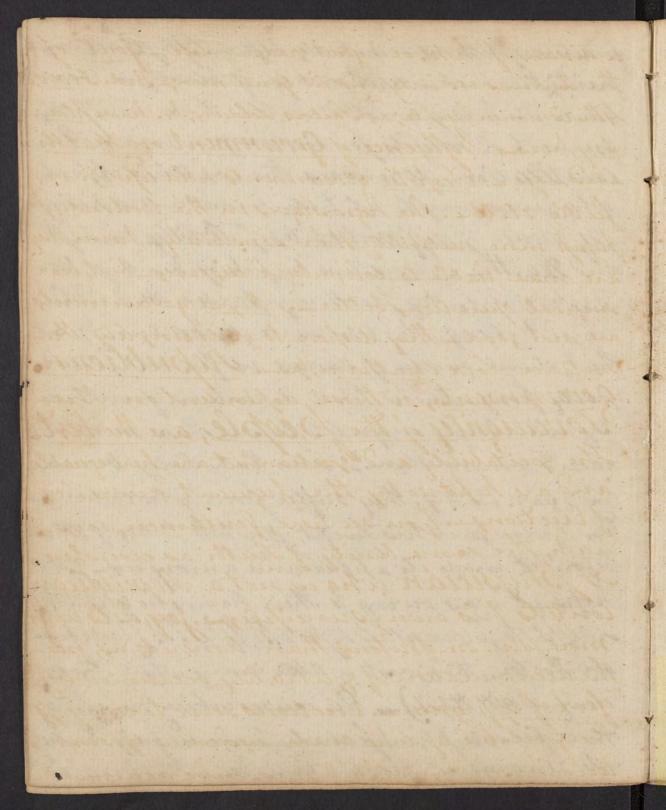


January 3rd. 1803. Lecture 4 3rd. Influence of the Dassions on Health and Life. Fear was wisely given up for the purpose of defending ourselves, or rather avoiding danger- In this. simple state its influence is salutary- but when to goefs, it causes los of memory, hys: teria, asphypia, manie, and death - causes the hair to stand evert to become grey, I. - It has rendered the hair grey in a single night. I has caused baldness - In the mind, or on the mind, its effects are also great - It de : thoys the memory; deposes, all other papions - moduces thirst - the cry of the flying roldier is Water! Water! with his tongue out of his mouth, It destroys benevolence - The best friends are de - serted through its influence - Instance, aportle peter - When combined with other papions, fear acts with double force -. Fear, like other sedatives Javors the action of other stimuli- Love is combined with fear. When fear is combined a continual blister it knows no holiday That my of the diseases of high Life are owing to it

Ambition. Its mortifications are attended with dig: ease and death. avarice abstracts that which is due to the World to Country to Friends, to Wife, to Children, and even to Self Esitaph_ who his lies his grace in cold clay clad, For want of using what he had" .-It is only by a knowledge of the Sufficient that we are able to govern the Understandings of men -. Legislators, Divines, and Schoolmartus have much of this yet to learn, before They may speet to see the good works prevail which they attempt to inculcate __ Venery in early Tife is injurious-also in Ad age. Obscene conver: sation is increased after years of age_. Thanish flies have been taken, in Europe, by old men, to excite the veneral appetite. Death was the consequence in a case which occurred while St. R. was in London. Boarding schools, where the Leges see each other continually, & cite venereal de: by the detestable vice of manism a young man in Majsachufetts, Etat. 21 years, emitted semen & times a day in consequence of these

HORSE STREET -

practice of manism in early life _. It produces painthe back - a discharge of bloody semen from its being emitted before it is completely formed? It unfits for marriage - ruins the Constitution - I renders the wretched object, who gives way to it, truly miserable & degraded. Influence of different states of Society on Life and Health_ Favages, live by fishing, hunting, Se. Barbarians, by pasturing flocks, &c. and Civilized nations, by Commerce, agriculture, Vectora. The natural diseases of Savages are few and princi: : pally fevery. This is what the natives of our Coun: try were chiefly subject to, before their were introduced among them -. From their living & encamp. ing near waters, they suffer from shalations-The Gellow fever has swept off whole tribes of them before it made its appearance among ug- per: : haps it was owing to their having he gualantine Laws to prevent Importation!! [weadone old Doctor, thou wast a little merry when thou composedst this!] The causes which now pro-: duce Consumption, Jornerly Jurduced only moder : : ate Joneumony, rheumatism, be Hysteria is a



a disease of the Wit. or highest grade of Life; - Gout of The 2nd .- as in independent Gentlemen; 3rd. Fever; 4th. Common Jesple; as Sailors, Loldiers, &. have plan: usy, Ve. _ Influence of Government on Health and Life - Despotic governments hold life in a Jeeble state. The hegro Slaves in the West Indies July more irritability than sensibility hence they are more liable to convulsive diseases but bear surgical operations better -. Mixed governments are not good - They dishore to great anxiety, &. -Instance, Lord Chatham, br. _. Republican governments, or those, dependent on the Forereignty of the Deople, are the best The spitability and speitement are here equable; and are kept so by the frequent occurrence of Elections -. you see here, gentlemen, says &. Rush, the same Unity of Truth as elsewhere. A physician who is not a Republican Contests his own principles -, Joy acts with more force on Britong Than americans, from the accumulation of spectability, occasioned by Jear of Oppression -. Elections serve to carry of The peitability, like chimneys carry off emohi; and hence specitability is more accumulated

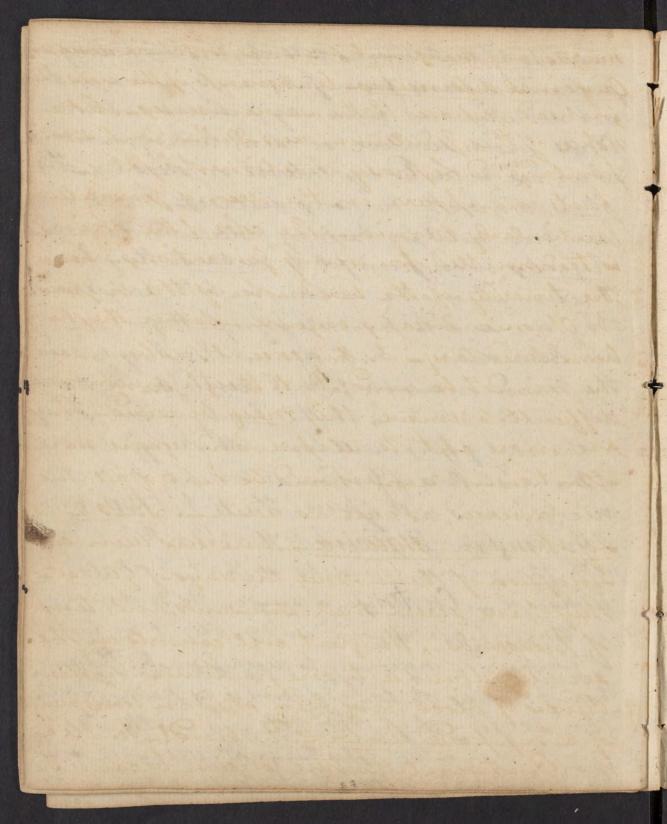
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in Britons from the want of those political Chimnies and hence their political joys and feary are more speepive and fatal :-Religion It is in vain for man to try to not be religious; or at least, to not worship - for he will substitute a new god, if he should even forsake The worship of the true & unchangeable destymany hations have gone the round in worship: : ping substituted deities, and at length return. ed to the Worship of the only time god. Jany. 4th. Lecture 44th. Influence of dif. ferent Religious on Life & Health . The relation of this would file a volume -. We shall confine our: selves to the Christian Religion - It sperts the most Jaiendly influence whom health & Life -. A Physician who renounces the Christian religion, stands removed from The principles of medicine. Two leligion never caused per: : secution, nor induced suicide. Infruence of imployments. agreculture - The first and most simple employment it is very healthy. The farmer & carpenter are subject only to fever and hecidenty. In has been remarked that carpenters are the longest li: eved of any person in Shiladelphia. Day laborers are subject to sore legs, bevers, Oc. Toldiers are vay

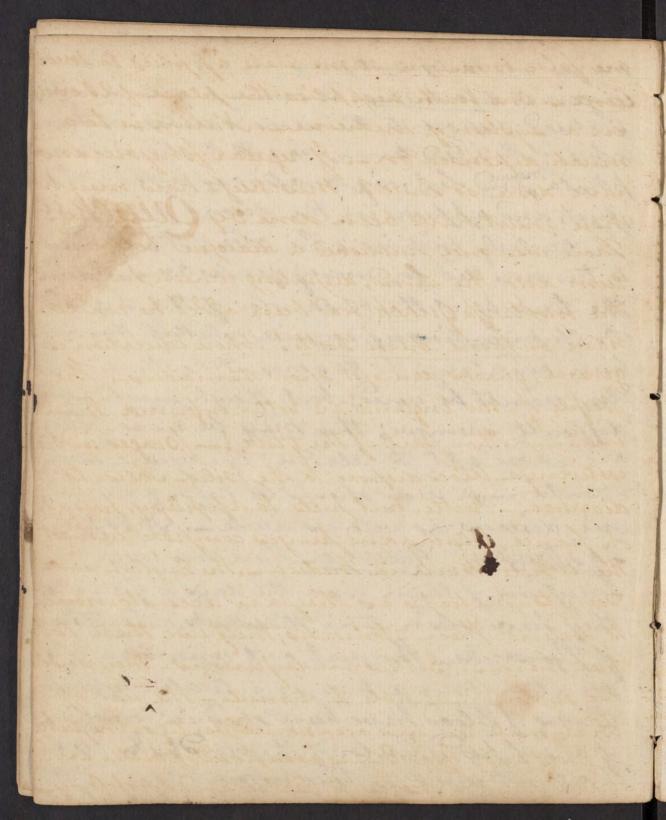
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very subject to Rhumatism- Tervants to catarrhs, price : monys, de franticularly Coach-divers -. Manufacturers suffer for want of air fetid mells furnes & - Weavers are generally hale, and subject to dyspersia- Watch: -makers and silver-mitter suffer for want of air, It. Faylorg for want of exercise fair their legs become large -. Bakers are subject to pulmonary consump. tion-to malignant and chronic diseaseg- Prin ters to inflammatory diseases - The lead in the types is injurious- St. Franklin whon warming his types felt the palsy seize his hands. Ic. de. Tudious persons are subject to dyspepsia-Telen: tion of wine from unfavorable rituations to · discharge it, de shas bad effects - Instance, St. Frankling who printed in an upper story, and retainedhis Unine from lazines, or want of time to go and dis: charge it when first used, brought on the gravel by it. Those who ride much are subject to costing inefo-firtula in ano, Le, - Amusements - The fre: disposition to disease, is greater from the pur: suit of pleasure than any thing beside! - It seems that our pleasures are greater evils to as than the curse of Labor - Heaven has winely ordained, it to be so. Contagion is often ensendered in

crouded afremblies; as Catarrh, be. Dancing produces diseases from fatigue - brings on indi: rect debility- most frequently produces catarrh-Cards prove sedative or stimulating, according as we are actuated by Interest or pleasure The: : atres dispose to hervous diseases. These diseases have been noted for keeping pace with theatres. tragedies never prompt to vertues- they pro: · duce a retrograde action on both body mind. They are said to promote sympathy, charity, and Benerolence - St. R. denus it - They render the mind insensible to real distress. The Lady who mells into tears at the Fragedy of Jane othere, or the Earl of Esex, will hear with maifference of the distrepres of famine or war in her own country, and will spurn the haked mendicant with haughtines from her door! -. Hunting, with the spercise connected with it, predisposes to disease _. Customs . Frams in the morning week. en the appetite if good, and gette it too highly if impaired, disposing to dyspepsia, &. The prac: the of visiting child-bed Women is pernicious. 15 or 20 del Josips, all charged with news, must have a bad effect. ... Heriditary, and Congenial diseases. The lues, made hop, me



meagles, and malignant fevers are congerial diseases. Congernial deformities - a samenes of the eyes & forehead dispose to the same diseases. Take notice of this, gentlemen, says St. R ... Sout, sero: phula, and Leprosy, sometimes pass by the first, and appear in the second generation. particularly manier. The color of the thin is transmitted for many generations - hence the tenacity of the black color of the hegroes. On Chronic diseases, enquire whether they have been hereditary - In this case it has been said they cannot be evered; but, though much more difficult to remove, they may be cured- They are more aft to relapse, and require more attention. Il record should be kept of all chis : nie direases, as well as acute_. Talse Lystems in Medicine. There has been a succession of them since the days of Galen -They have slain their thousands, and tens of Thousands. The great evil consists in the servile adherence to one particular system, - Olivers of blood have been shed in consequence of a supposed lentor of the blood - to. the should not reject the true religion because the



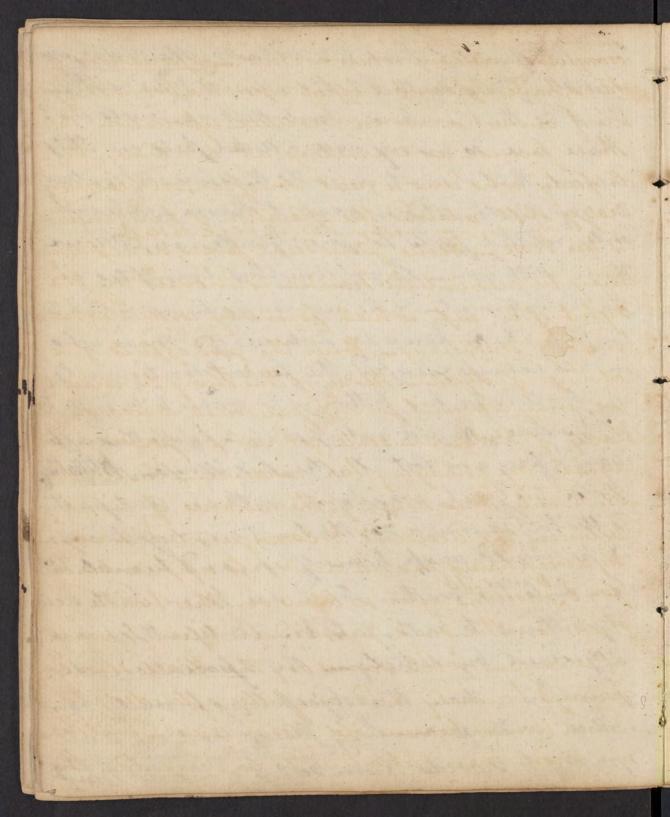
are false ones. The same rule applies to medicine - One truth supplies the place of 20 errors in a system of medicine. Nature is too much depended on .. of regular Shysicians have done so much mischief- how much more must have been done by Ollliks! Their was once published a dialogue between Tum and the Liver, disputing which had slain the most- ya quack had been added he could have outdone them both . Where Education is general, quacks dave not show themselves. The Helple of New-England are better informed than in any other part of the globe! - purges induce costiveness. aloes dispose to the Isiles - Salts to diarrhoa, - Butter but fills to applepy, haly k. on france, Olisters and purges compose almost the Whole materia medica. The English use vomits-perhaps as they are accustomed to distend their stomachs, they use there to free them . Betters are injurious. They render The system insensible to stimuli- The use of Chamomile tea has occasioned vertigo- The duke of portlands powder is composed of bitter en: gredients it disposes to palmy and aproplepy

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Opium, when too much used, disposes to languor, dys: : pepsia, loss of memory, de .- Blood letting, disposes to Isle: : Thora, withall its morbid consequences -. Wine, taken during the first attack of fever, produced deathin two persons. Bedilivia do harm in active Jever - as also does opium - Diet drinks have been introuced from a false theory -. Quack me: dicines -. Jodpuje cordial has killed many -. Or. A. bomets, even in a common dose, given under certain circumstances, do harm -. Bitters sometimes render the Bark ineffectual. Jany 5th. Lecture 45th. - Influence of tympa: They and antipathy- gaping spreads through a Company like contagion - Laughing and weeping may be produced without a knowledge of their specting causes -. Convulsions were produced in b persons in the pennsylvania Hospital by the power of Sympathy Ituttering has been acquired-especially by being found of the person who stuttery. How shall we account for this? Dr. R. answers, man is an imitative animal. A knowledge of death is communi: cated to relatives at a great distance by some unknown Intelligence Instance, a boy, who, to

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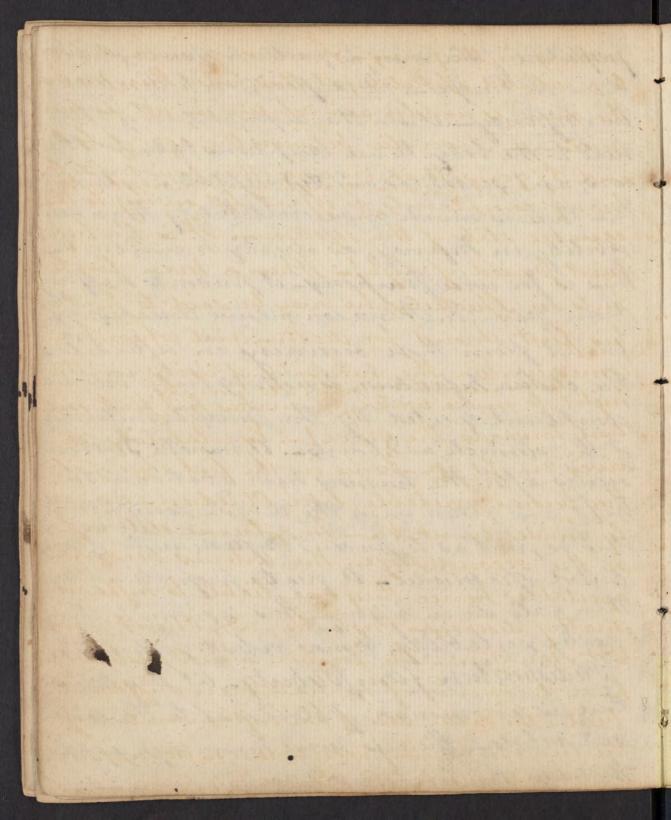
though separated from his Father by the ocean, was rensible of his death at the moment he died .-What is that unknown web that connects us? There are so many well-attested facts on this subject, that I must, says It. R. however contrary to my inclination, admit them . I have only related facts to you, Gentlemen, I leave them with you. Love of ancestors-Epainples in the old Lestament St. R. has seen Enstances enough to confirm it . He knew an instance of a man who, in his sickness espressed the fondert sentiments of affection for his father, and wished to be intered by his side. He did not appear to possess this affect tion before, and lost it after, his illness_ Allhally Heter the great, was born with an antipathy to Water; so much so, that when going to ends it, he would wrap himself up, and tumble head long into the boat. Some are borne with an: : tepathies to cats, rate, br. - antipathies are acquired by satisty -. By association, de: pending whom the object being formerly com; : bined with fear. Ming James had an anti: pathy to swords, from seins a hourd mende



stabled while pregnant with him? aforciations of Ideas, have a powerful effect whon the body- They are of immense use in practice. apociation in ther forms - as univerting at bed time, be .a Lady who was a great snuffer, on becoming to her hose . Hence periodical fovers, and Epilipsy may be accounted to house a is induced by the right of a cup which formerly contained nau: seating medicines. Hence the good effects of a change of objects. Hence, if this Theory be correct, we may account for all periodical diseases. A Lady of Delaware state got ried of a periodical disease by changing her residence _ Ve. accidents Dr. R. only takes notice of the distance of time between the accident & consequent diseasefor 8 months after a blow on the head. a Miche on the back produced an Ulcer 4 months afterwards. Contusions on the Head should always be early and carefully attended to-More Women become old than men - but there are more men who live to be very old. The

and the second s the state interesting on the wife of march 18 and and 18 a BESTER OF THE STATE OF THE STAT All the world the second of th Same Street Stre STATE OF THE PROPERTY OF THE PARTY OF THE PARTY. The second second

proportion of do mon is greater in hew England than in Europe - , Wedisposition to disease in Infancy . From the disproportion of the head to the body-hence cruptions behind the ears, and scald head, and Hydrocephalus internus, Oc. - There is much more irritability than sen: -sibility, in Infancy, as already mentioned_ This is for wise purposed- it prevents suffering from frain, &. - hince convulsive diseases; different from those occurring in after life or The cholera Infantum, is nothing but a bilious complaint, speited by the Bearliar irritability of the stomach, and bowels -. Cynanche Fracheally occurs after the humorg have abated in the head, and fallen whon the lungs- sometimes it is so great as to prevent Inflammation; hence called spasmodic - a greater proportion of boys Than girls die in Infancy- This is owing to their greater scitability, & more violent sections, &. predisposition from puberty. at this period there is an increase of blood sent to the semi: nal vefsels. There is hasal hemontage, dyspeping pains in the joints; called growing haing - I wel



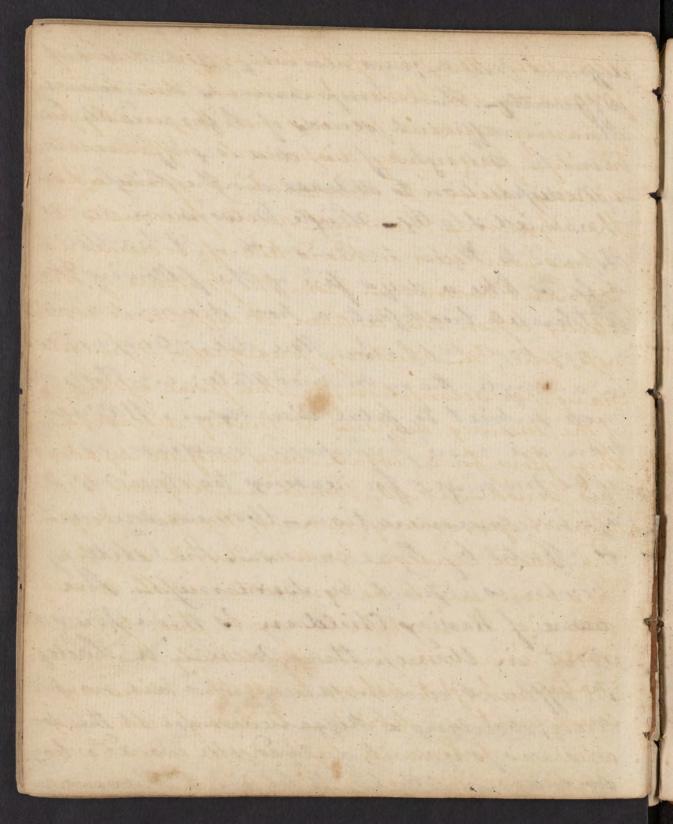
swelling in the groing - Fernales are more disposed to a vitiated appetite, at this heriod, than males. The mind is unstable and volatile in all its pur: = suits -. -. Fewer die between the age of 40 many complaints, so off at 40 owing to the equable state of the system. It is the hap: : friest period of Life! - When a man first puts on Spectacles, he may be said to puton his first shroud for death- and when he hight to make water, he makes his first motion towards the grave! -. Excitability re: vives in old age hence in the first stage of it, they become irritable, like Children - are easi: : ly made drunk, de. -. In & treme old age, or the second stage, the arteries become excitable; hence they are liable to inflam: : matory diseased- Instance, St. Chovet, and Dr. Franklin; - The former would probably have recovered, if he had been sufficiently bled - The latter died of an inflammation of the lungs for pleine of which ran on to suppuration The absects burst and strangledhim,

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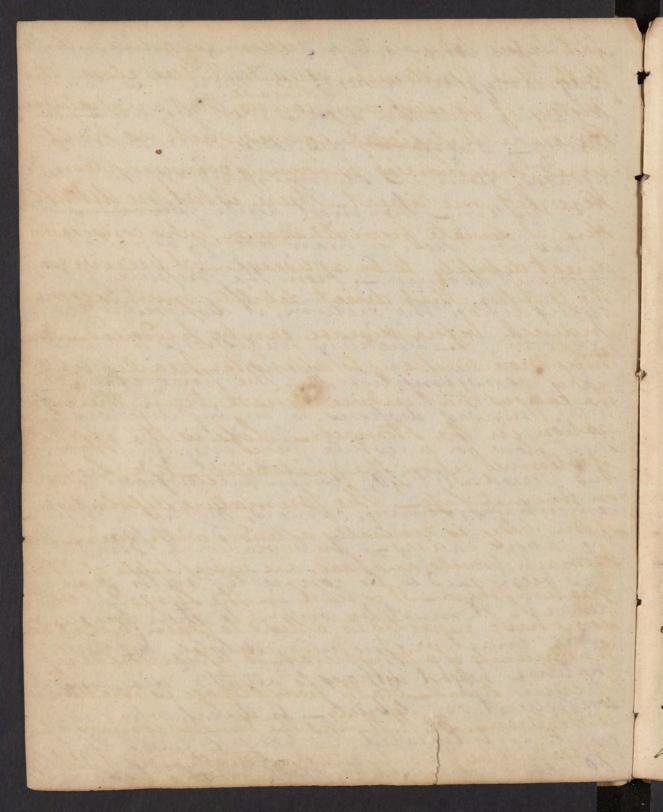
Jany 6th. Lecture 46th. predisposition to disease from the Intemperance of ancestors The varieties in the minds of men are not al. - together owing to Education - Foundations for them are laid at birth, K .- Different Temper: : aments dispose to different diseases, and to different forms of the same disease. The fan: guine Temperament disposes to arterial dis= : ease; producing fever, &. Some people have no fever -. The hervous habit disposes to Hypochondriasis, Hysteria, Epilepsy, mania, to. The bilious Temperament dispong to &: capive, or deficient secretion & speretion of Bile - producing Colic, diarrhaa, &... The Phlegmatic Temperament Judisposes to fre: ternatural scitability in the lymphatic, and hervous Lysterny. Thus remote cause act differently on different demperaments Boys at school were affected by spactly The same remote cause but were all affected differently. This splains The cause why Epidemies differ in differ:

in with whate a supplied and will be a second THE REPORT OF THE PARTY OF THE With the time the same and the same that the same the same the same that the same that the same that the same the same that the Market Mark the second of the the state of the s we this action the terror was a fire property in the contractions

different people; and also why Medicines act differently. Those Temperaments succeed each Ther in different periods of Life; and should ouver be lost sight of in diseases & practice. - Medisposition to disease in the Single and married States. Vingle persons are more disposed to Hypochondriasis, 4 .- A Bacheloig Life is like a days fare of the following kind, a toterable breakfast, a poor dinner, and a very bad supper! More die, ceterisparibus, in a single than married state; i.e. They are more subject to fatal diseases. Married men are more predisposed to disease, soon after marriage; for reasong too obvious to require enumeration-lbomen are not so affected by those causes. The health of Women is injured by Barrenness. The desire of having Children is more preva: elent in Women than men -. a Lady in affluent circumstances, who had no chil: dren, observing a Beggar woman at the door who was foregrant, declared she would & change conditions, with her to be in the same si

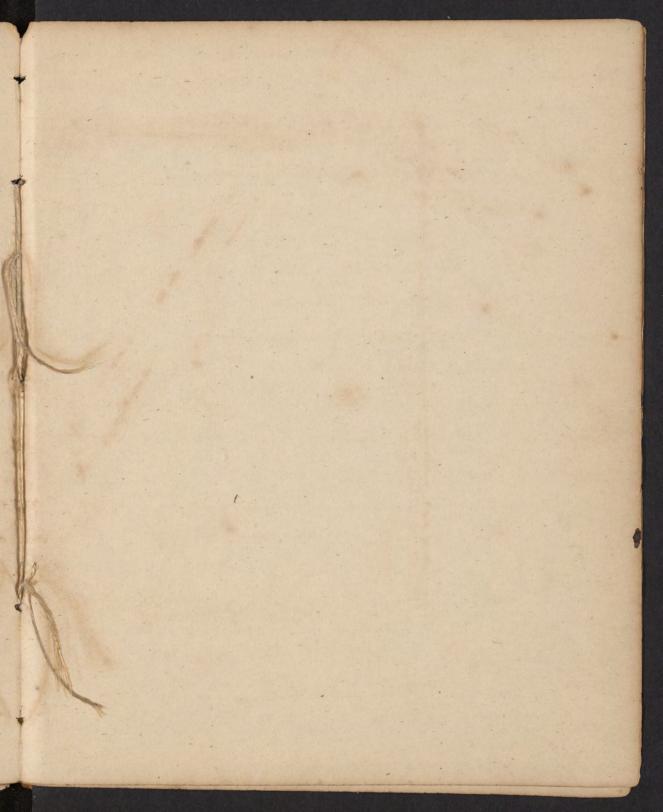


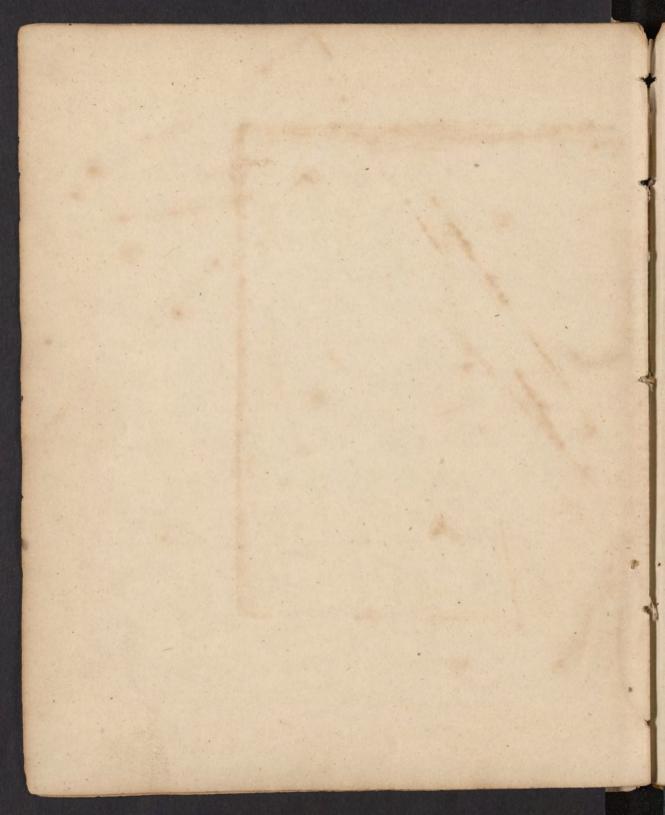
setuation! How powerful then, is the desire of pregnancy in Women! In men, this desire of having children occurs most frequently from banity- pregnancy disposes to inflammatory diseases, from its stimulating effects whon the Tystem. The most acute pleurisies St. Ol. has ever seen or heard tell of occurred in pregnant Women -. From the prefoure of the Uterus upon the rectum, it disposes to costine nefo, chie, De - Suchling predisposes to pulmo nary consumption, the The final refration of the mensey disposes to many diseased --They flow for a while very irregularly about this period - at 40, Women are disposed to colie, hemonhages, seurny, cancers, Hysteria, de from The above causes - preternatural shape has been said to be consected with veneral desire! - It must be owing to their being more inactive; producing debility, &- preter: natural hight disposes to all the diseases consequent on debility. a dwarf, who was carried into England by George 1. lived to be 80 years of age. Beoble who become

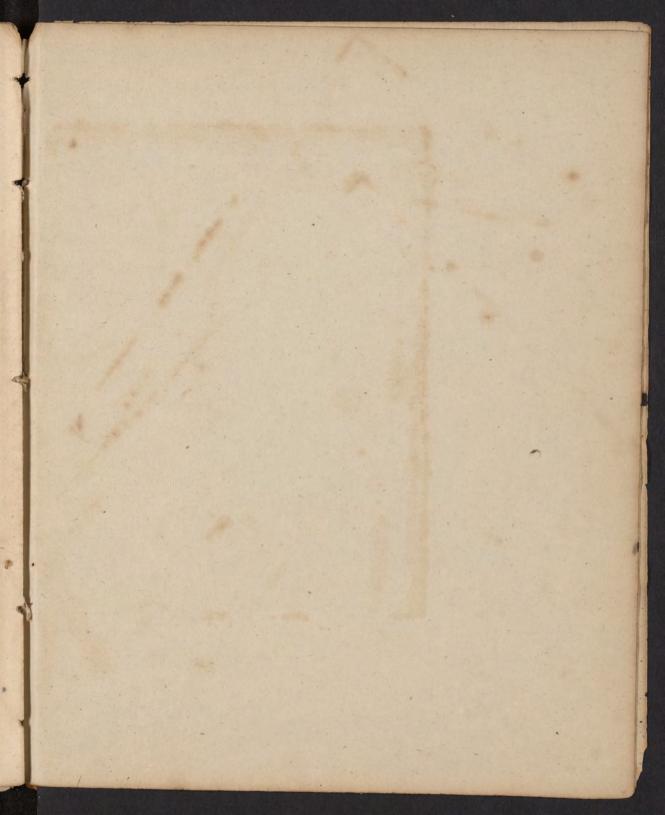


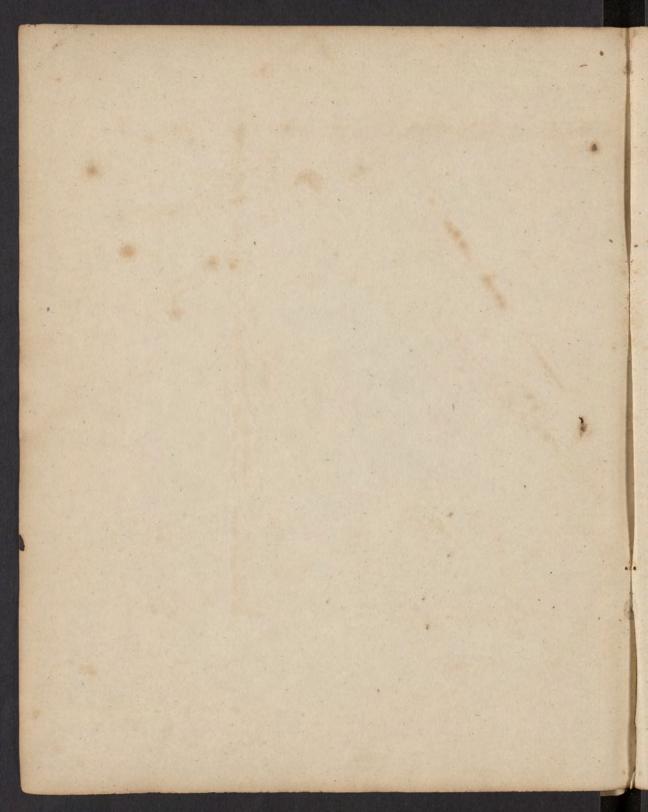
fat before 40 years, are seldom long-lived - de. de. With this, fentlemen, says It. R. We close the History of Predisposing causes that are natural, There are artificial causes; such as half-- cured preumoning producing consumption, &c. Here let me repeat_ There is but one disease! Here I deviate from Dr. Brown, who considered direct debility to be a disease _ . I believe, says the profesor, that direct debility must become Indirect before disease can be produced. One Thing more necessary to attend to - nearly all the causes that induce disease, begin their ofu: ration in the Stomach. Life is the effect of stimuli upon the Scitability- ride, Lectures on animal Life. The premature dipolution of the body is generally attended with pain- The Homach, bowels, and head, are susceptible of the greatest pain - It is least in the Lungs & Lever. Lome have neglected to attend to pain; but it is The Burnes of a Physician to lessen misery of every kind . Death from oldage is unattended with pain. Dr. R. thinks the time is coming when old age will be the only cause of death. End of Dather

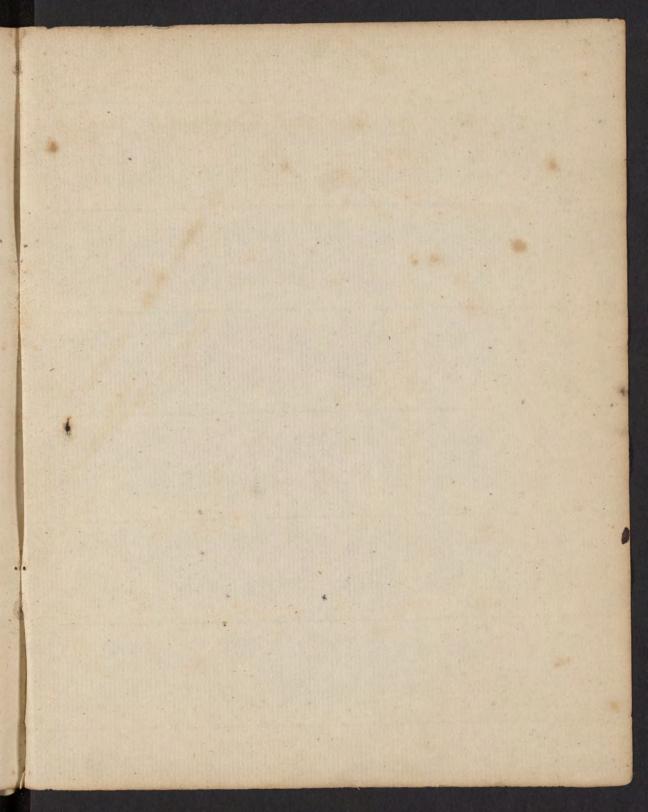
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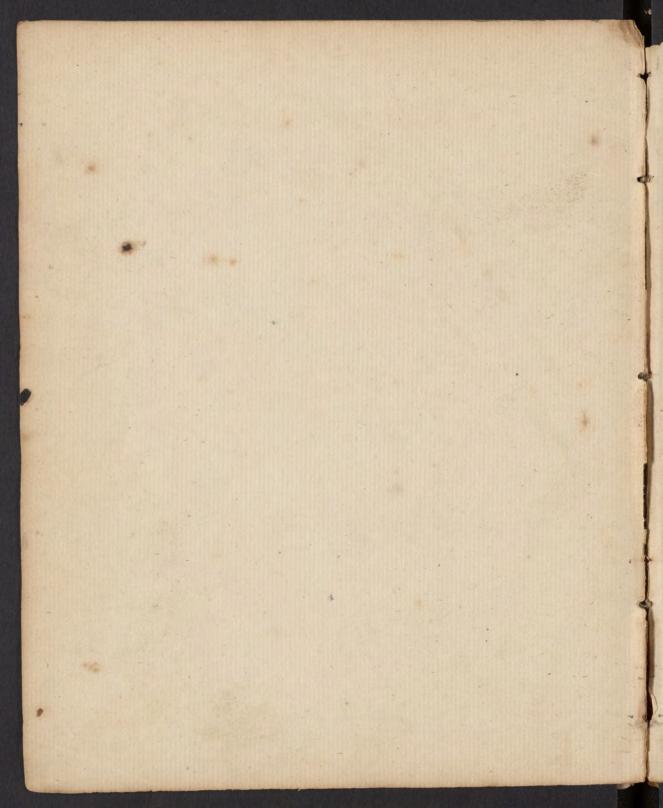














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